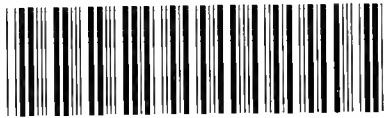




7 9. 64

Natural History Museum Library



000196226

S 174 E.C

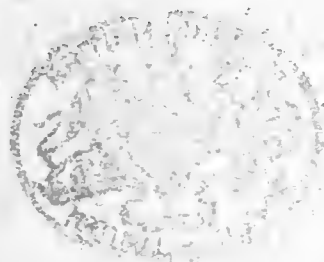




*The*  
**LONDON  
NATURALIST**

*The Journal of*  
**THE LONDON NATURAL  
HISTORY SOCIETY**

FOR THE YEAR  
1941



**PRICE 3s 6d, OR COMPLETE WITH SUPPLEMENT,  
THE LONDON BIRD REPORT, 5s.**

**PUBLISHED BY THE  
LONDON NATURAL HISTORY SOCIETY,  
THE LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE,  
KEPPEL STREET GOWER STREET, LONDON, W.C.1.**

**DATE OF PUBLICATION,  
SEPTEMBER 1942.**



# **LONDON NATURAL HISTORY SOCIETY.**

Founded 1858.

## **Officers for 1941.**

Offices in the Society and its Sections are Honorary.

### **Honorary President:**

Prof. Sir F. GOWLAND HOPKINS, O.M., M.A., M.D., F.R.C.P., F.R.S.

### **Honorary Vice-Presidents:**

Sir LAWRENCE CHUBB.

E. A. COCKAYNE, M.A., D.M., F.R.C.P., F.R.E.S.

Prof. M. GREENWOOD, D.Sc., F.R.S., F.R.C.P.

A. HOLTE MACPHERSON, B.C.L., M.A., F.Z.S.

L. B. PROUT, F.R.E.S.

J. ROSS.

### **President:**

J. B. FOSTER, B.A.

### **Vice-Presidents:**

J. E. S. DALLAS; W. E. GLEGG, F.Z.S., M.B.O.U.;  
Miss C. E. LONGFIELD, F.R.G.S., F.R.E.S., F.Z.S., M.B.O.U.;  
R. W. ROBBINS; H. SPOONER; L. J. TREMAYNE, F.Z.S.

### **Secretaries:**

General—A. B. HORNBLOWER, 91 Queen's Road, Buckhurst Hill,  
Essex.

Minuting—J. H. G. PETERKEN.

Syllabus—G. W. COLLETT.

Publications (and Editor)—H. OLDROYD, M.A., F.R.E.S.

### **Treasurer:**

F. G. DELL, 55 Russell Road, Buckhurst Hill, Essex.

Librarian: G. H. SPINNEY, B.A. Curator: L. G. PAYNE, F.Z.S.

Director of Sectional Organisation: S. AUSTIN, F.Z.S.

### **Members of Council:**

H. J. BURKILL, M.A., F.R.G.S.; W. C. COCKSEGE; R. S. R.  
FITTER, F.Z.S.; R. C. HOMES; Miss F. E. JOHNS; D. A. T.  
MORGAN; L. PARMENTER, F.R.E.S.; I. H. H. YARROW, Ph.D.,  
D.I.C., F.R.E.S.

### **Lanternists:**

Mrs M. M. WILSON; Mrs E. D. PARRINDER; W. D. PARK; Miss  
W. N. POPPLE.

The Society is affiliated with the British Association for the Advance-  
ment of Science; the South-Eastern Union of Scientific Societies; the  
Commons, Open Spaces, and Footpaths Preservation Society; the  
British Ecological Society; the British Trust for Ornithology; and the  
Pedestrians' Association.





R. W. ROBBINS, 1871-1941.



# The London Naturalist, 1941.

---

*The London Naturalist* and its supplement *The London Bird Report* are published annually, and provide a record of the activities of the London Natural History Society and its members. Contributions are welcomed from members of the Society on any natural history subject, and, if space permits, from non-members on any natural history subject concerning the London Area. The London Area, as defined by the Society, is comprised within a radius of 20 miles from St Paul's Cathedral, and includes the whole of Middlesex, and parts of Bucks, Essex, Herts, Kent and Surrey. All papers intended for publication in *The London Naturalist* and *The London Bird Report* must be submitted in the first instance to the Secretary of the appropriate Section (Archaeology, Botany, Ecology, Entomology, Geology, Ornithology, Plant Galls, Ramblers), and not directly to the Editor. Other inquiries may be sent to the Editor, at 39 South Grove House, Highgate, N.6.

---

## Contents.

---

	PAGE
Obituary: Randolph William Robbins, 1871-1941, ... ..	2
Charles Oldham, ... ..	11
Rear-Admiral Axford, ... ..	11
Absent Friends, ... ..	11
The Royal Fern ( <i>Osmunda regalis</i> L.) in Surrey—L. G. Payne, ...	12
Plant Gall Records for 1941—H. J. Burkill, ... ..	13
British Butterflies in 1941—H. J. Burkill, ... ..	14
Mammal Recording in 1939-41—R. S. R. Fitter, ... ..	16
The Survey of Limpsfield Common:—	
The Diptera of Limpsfield Common—L. Parmenter, ... ..	18
The Bryophyta of Limpsfield Common—J. H. G. Peterken, ...	33
The Bookham Common Survey, ... ..	37
The Chingford Branch Ecological Survey ... ..	37
Official Reports for 1941, ... ..	38
Statement of Accounts, 1941, ... ..	40
List of Members, ... ..	41

## Obituary.

---

### Randolph William Robbins, 1871-1941.

THE passing of Randolph William Robbins on the 1st August 1941 was a heavy blow alike to his family, to his intimate friends, and to this Society in which he had for so long been a leading figure. Occurring, as it did, during a war which is increasingly restricting the activities of such Societies, it is probable that a majority of the members have still imperfectly assessed the magnitude of the gap left in their ranks; but when normal activities are resumed—as resumed we trust they will be at no too distant date—it will be no easy task to find another leader with the wide knowledge, wisdom, understanding, and withal, enthusiasm, which characterised the one we have lost. For Robbins has been a leading figure not only in the Society as we know it to-day, but also in its humbler progenitors, for well over half-a-century; and, almost alone amongst the few who can claim a membership of equal duration, he was at least as active a worker at the end of his course as he had been at the beginning. And at an age when one is prone to lament the “good old days,” he was young enough to welcome the fresh orientation of ideas wrought by the inflow of youthful recruits. Indeed, in one of his last letters from Paignton he deplored the absence from the local Natural History Society of the young people so numerous in our own. He was always at his happiest with youthful companions, and declared that, so long as he could have them, he would remain young despite the passing of the years. He remained young to the end.

Randolph William Robbins was born at South Hackney on the 11th March 1871. Little is known to the writers of his earliest years beyond the fact that the little town of Weedon in Northants, where he was wont to pass his holidays with his aunt, was always a bright spot in his memory. He would occasionally talk of his happy days in its lanes and woods, and he long retained the Kingfisher’s eggs obtained from a nest in the river-bank. He would also speak of the thrill with which he used to watch the L. & N.W.R. expresses go roaring through the little station, collecting in their passage the local letter bag in their mail apparatus. The great railway clearly made a lasting impression; and in later years there were few lengthy journeys made in the writers’ company when he did not discourse learnedly on signals, speeds, gradients, curves, and similar railway topics.

His first school was Milton College, Ullesthorpe, near Lutterworth; but when he was about 12 years of age, he was sent to the Grocers’ Company’s School, Hackney Downs. It was there that the writers first made his acquaintance. A common interest in butterflies and moths forged the link more closely; and many were the occasions when a box of recently captured specimens was produced for inspection in the Sixth Form class-room. How vividly do we recall the small zinc pocket-box packed with the spoils of an evening’s “sugaring” at High Beach or a

day's foray amongst the heather at Theydon Bois—and the excitement when a boy, who had spent the summer holiday in Norway, exhibited his catch which included *Parnassius apollo* and *Issoria latona*! *Eheu! fugaces labuntur anni*!

It was towards the end of Robbins' school career that the first notions arose of forming a Natural History Society. A meeting to consider the project was held at Mr A. C. Smith's home in Clapton; and as a result the Clapton Naturalists' Field Club was launched. It was quite a small affair, holding its meetings at the homes of individual members. Such an arrangement would probably have been difficult to maintain indefinitely; and the strain was relieved when, thanks to the interest of one or two of the masters, a meeting room was provided at the school. The name of the Society was changed in gratitude first to the G.C.S. Natural History Society, and later to the G.C.S. Science Club. The Society carried on in its school quarters until the end of 1891, by which time the boys chiefly interested had left the school; and it was then intimated that if it was still desired to meet at the school the Club would have to become affiliated to the Old Boys' organisation, the Clove Club. Even if such a course could have been deemed desirable on other grounds, it was manifestly negatived by the consideration that several of its leading members could not be included in the Old Boys' organisation because they had never attended the school. The connection with the school had therefore to be severed; and this step was duly taken. A short time afterwards, after a period of intensive preparation, the Science Club transformed itself into the North London Natural History Society, which met for some years in the Hackney and Clapton area until it was found necessary to have a more central meeting place in London. In 1914 the Society amalgamated with the older City of London Entomological and Natural History Society to form the Society which exists to-day.

From the days when the infant Society first began to meet at the school, Robbins was an active member, contributing papers on a great range of subjects, entomological, botanical, ornithological, meteorological, astronomical, and philosophical. As long ago as 1898 he occupied the Presidential chair of the North London Natural History Society.

On leaving school in 1887 Robbins entered the Secretary's Office of Guy's Hospital, Southwark; and he continued to serve there in positions of steadily increasing responsibility, and latterly as Renter Warden, until he retired in 1935. It was for him a happy choice; for it provided him with work of considerable interest and nevertheless allowed an amount of leisure, especially in the earlier years, which excited no little envy on the part of his contemporaries. How many an afternoon was he able to spend exploring the Carshalton district of Surrey, which always remained a favourite resort of his!

In the year 1894 came what was then a big adventure—a holiday in Switzerland, with a small party from the London Polytechnic. He visited Lucerne, Meiringen and Grindelwald; and though collecting was not a primary object of the journey, he brought back insects and plants

which remained permanently in his possession. Two years later he was again in the Lucerne district in the company of one of the writers. Larger collections were then made, including insects unknown to us which had consequently to be referred to by names of which modesty forbids mention. His honeymoon journey in 1897 took him once more to the Grindelwald district, after which for some years his holidays were passed in England or in Wales. He had spent a holiday at Barmouth, North Wales, with one of the writers shortly before his marriage—a holiday which produced much of botanical interest, including the Oak Fern and the Beech Fern, as well as a selection of the local insects. In 1905 he joined Mr Stanley Austin and one of the writers in a journey to Gsteig-bei-Saanen in the Bernese Oberland, and thence over the Sanetsch Pass to Evolena and Arolla in the Val d'Hérens. How well we remember his delight at the meadows full of *Trollius*, the red-letter day when he found that fine orchis *Cypripedium calceolus*, his amazement at the incredible abundance of the larvae of *Zygaena minos* on the moraines at Arolla, and his joy at seeing—or rather chiefly hearing—the Nutcracker Crow amongst the pines on the screes. Some years elapsed before he again undertook Continental journeys but eventually he made several expeditions, in 1932 to the Angoulême district in S.W. France, in 1933 to the Italian Tyrol (Bolzano), and in 1936 to Austria (the Stubai Thal and the Achensee). The last journey was made in 1938 when he accompanied the writers to the Basses Alpes and the French Riviera. He had arranged to join them in July 1941 for a visit to the Cotswolds, but it was not to be. He was too unwell to start and the malady progressed rapidly to its fatal conclusion.

In 1897 Robbins married Eleanor Louisa Simmons, and entered upon a long period of very happy married life. The three children, Margaret, Alan and John, formed with their parents as happy a household as could well be imagined; and for a long term of years it seemed as if the tragedies which from time to time becloud so many homes were powerless to dim the skies above theirs. The two elder children in due course married and set up homes of their own; but the younger son, John, who had taken up entomology as a profession and was employed at the Imperial Institute of Entomology, continued to spend his week-ends at his parents' house at Limpsfield, making the journey on his motor-cycle. This week-end journey led to the first tragedy, for on the 11th April 1932, while on his way from Limpsfield to Farnham Royal, John collided with a lorry and was instantly killed. A few weeks later Mrs Robbins entered hospital to undergo an operation from which an early recovery would normally have been expected; but supervening, as it did, so soon on her great grief she was unable to respond to medical treatment and she never rallied. The shock to our friend must have been tremendous but he bore it bravely and found some relief in his accustomed pursuits. After an interval of some two years he married his late wife's sister, Rose; and the stage seemed to be set once more for another long spell of happiness. That spell, indeed, lasted until February 1941, when his wife died after a short illness; and there can be little doubt that the disaster was a causal factor in his own decline.

In the course of his annual address many years ago a distinguished President of the Society—the late Professor J. W. Gregory, F.R.S.—reminded his audience that, though specialisation in a restricted field of study was essential to scientific progress, that could, from the specialist's own point of view, represent at best only one strand in the bow with which the symphony of life is to be played. A bow for such a purpose, he said, needs a great variety of strands. We have often wondered in the intervening years whether the President's words did not have an effect beyond anything he could have imagined, for not a few of his hearers gave evidence in later years of a versatility that was remarkable. The late Arthur Bacot was a notable example of this, and so also was Randolph Robbins. Absorbed, as he was, in the minutiae of his own particular branches of Natural History, he sought to keep such studies in their true perspective by maintaining a grasp of the broader principles of science in its widest ranges; and there were few fields of human endeavour to which he allowed himself to be a stranger. It is, however, no part of the writers' purpose to attempt to assess his achievements in any of these fields or, indeed, in any individual branch of Natural History. They have regarded it as their task to sketch his career in the broadest outline; and they have assumed that this brief memoir of their friend will be followed by others from the pens of other members better qualified than they feel themselves to be to depict with greater precision the several aspects of a many-sided personality.

Robbins was not a prolific contributor to the contemporary literature of Natural History, at least so far as the magazines are concerned; but the files of the *London Naturalist* contain not a few notable articles from his pen. He was always ready to provide a paper for discussion or to open a debate on some interesting question, and always aimed at securing a wide-ranging discussion and at eliciting the opinions of his hearers, particularly the younger ones. In his passing we have, therefore, to deplore, not chiefly a loss to literature, but a loss of the personal touch which we have so long taken for granted and without which the meetings will seem to many to be strangely empty. It is amongst the active members therefore that his loss will be most keenly felt and it is by them that he would certainly wish to be remembered. But let us see to it that the memory which we enshrine is that of the vital spirit of our friend, to the exclusion of any morbid dwelling on the pitiful details incidental to the termination of the human span. Let us not attune our minds to the German poet who tells us

Das Grab ist tief und stille  
Und schauderhaft sein Rand!

Let us rather share the confident view of our own poet—

There is no death! The stars go down  
To rise upon some fairer shore!

J. A. S.  
C. B. S.



## Botany.

Precluded as he has been for some years from attendance at its meetings, the writer of these hurried and inadequate notes finds it impossible to picture the London Natural History Society without the presence of Randolph Robbins.

In matters botanical, as in all other domains of natural history, Robbins always strove to be accurate in diagnosis without being pedantic or aggressive, and was possessed of a quiet urbane temperament which inspired confidence in his judgments. He was no mere armchair theorist, being more at home in the field, where he combined keen insight with a sincere love of natural beauty.

Apparently he had never discovered any species new to science, nor even to Britain, whilst no variety or forma seems to have been named after him, but it was always a pure delight to him to introduce an interesting find to an appreciative fellow botanist. One pleasurably recalls the smiling (almost boyish) pride with which he once pointed out *Ranunculus sphaerospermus* at home in its native rill in the Brasted valley, or greeted *Galium vaillantii* as an honoured (though entirely uninvited) guest on his Limpsfield allotment.

Amongst other genera favoured by Robbins, perhaps *Carex* and *Viola* stand out pre-eminently, especially the former. His knowledge of *Carex*, that erratic and over-bulky genus, was profound, and was ever at the service of his colleagues.

His rock-garden at "The Rosery" was gemmed with treasures culled in many localities, some from alien lands, and was indeed sacred ground, where one felt almost impelled to remove one's shoes before setting foot thereon.

A much older man than the subject of these notes, one who had never dreamed of being called upon to pay tribute to his memory, may perhaps be permitted to trust that Randolph Robbins, called away from the mortal agony incidental to this epoch-making war, may in Elysian Fields be still pursuing his beloved hobbies, welcomed and aided by the select company of nature-lovers, great and small, who have arrived there before him.

E. B. B.

## Entomology.

We first knew Robbins as a keen entomologist; and such he continued to be. No one could dispute the keenness of a man who, on the way to his wedding, could capture a hawk-moth and keep it in his top-hat!

Our earliest associations were in "dusking," "sallowing," and "sugaring" in Epping Forest; but the field soon widened, and there were trips to the Norfolk Broads, Wicken Fen, and the New Forest. The Society's Whitsun visit in 1890 had shown the richness of the latter locality, and soon prompted a summer holiday there. If the hopes of *Apatura iris* were not then realised, there were plenty of fritillaries, white admirals, and hairstreaks, with, at night, Crimson Underwings, and *Acidalia emutaria* at Matley Bog. (Merely to write that name,

fifty years after, is to set the air throbbing with the churring of the nightjar, and to spice it with the scent of sweet gale and cross-leaved heath!)

Later on, North Wales became a favoured haunt of our friend; and his cabinet contains still the *Chaerocampa porcellus* netted over red champions at Arthog, as well as treasured examples of the local *Acidalia contiguaria*.

He yielded to the lure of Switzerland in his early twenties, and by 1905 he had spent four holidays there. He brought back considerable collections, especially in 1905, when the bag at Evolena in the Val d'Hérens included *Anthocaris simplonia*, *Coenonympha satyrion*, and *Polyommatus eumedon*.

At a later date his field of operations further widened and introduced him to notable insects, such as *Agriades bellargus* f. ♀ *coelestis* from S.W. France, *Neptis lucilla* and *Libythea celtis* from the Italian Tyrol, and species of the alpine genus *Erebia* from Austria.

The last expedition, made in May 1938, was to the gorges of the Verdon at Castellane, to the French Riviera, and to Digne in the Basses Alpes. The meridional genus *Thais*, together with certain Southern "Blues" and the "Glory of Provence," *Euchloe euphenoides*, were the chief entomological features. The last picture of our friend in action is set in a steep and rocky gorge on the side of La Collette at Digne, as, in blazing sunshine, he stalked *Polyommatus iolas* amongst the bladder senna, while overhead at a prodigious height a pair of golden eagles swept round in vast circles.

The collection which he has left is not a large one because he never set out to amass long "series." He preferred rather to store his mind with pictures of the living insects in their native haunts. How rich was that mental store is well known to those who have listened to him speaking at our meetings.

J. A. S.

### Ornithology.

By common consent of those who knew him, Robbins was recognised as our best all-round field naturalist. As with many boys of his generation, his first interest was with the British lepidoptera, of which he became a serious student, but, endowed with a naturally enquiring mind and unusual powers of observation, his interest in natural history widened, and botany was added to his active collecting, in which subject he later became a critical student. With his wide appreciation of nature, it followed that a knowledge of bird life and its problems attracted his attention and formed part of his field activities, assisted as it was by his widening experience with insects and flowers. Robbins would have made no claim to rank as an ornithologist but he had a good working knowledge of the subject. His long acquaintance with the natural history of Epping Forest early familiarised him with most of our commoner woodland species, and on his removal to the Surrey Hills, a district he was already familiar with, an impetus was given by the

introduction of new species. I well remember his pleasure on becoming familiar with the Wryneck and Willow Tit, the former having bred in a nesting box in his garden at Limpsfield and the latter being discovered in the district.

Memory also recalls many expeditions in his company bird-watching in this district and later on he took great interest in the ornithological section of the Limpsfield Common Ecological Survey. Blessed with an independent and original outlook, Robbins took little for granted and, sustained by wide reading, he could be relied on to give an informed opinion on most subjects.

He kept in touch with ornithological science by subscribing to *British Birds* and the *Journal of Animal Ecology*, the ornithological articles of which were of interest to him, and his own reference library contained a selection of works on birds and bird life.

An active member of our Ornithological Section, he could usually contribute some critical or stimulating remarks in our discussions, his practical field experience supporting his views. He assisted our local recording scheme by regular contributions.

In a book published in 1932, dealing with the Oxted and Limpsfield district, and published locally, Robbins was responsible for the section dealing with the birds, as well as the flowers.

We could not claim Robbins as being among our ornithological specialists, but his work in this branch of natural history was of value to us and his loss a serious one.

S. A.

### Ecology.

When in September 1935 the idea of forming a Section to study Ecology was discussed, Mr R. W. Robbins was the obvious and unanimous choice for Chairman. His recognised position as an all-round field naturalist, his gift of wise leadership and friendly counsel, made him an excellent advocate when the Council's permission to form the Section was sought. That he undertook this office in a new Section when only a few months previously he had resigned the Chair of the Entomological Section in view of his retirement from Guy's Hospital, showed his keenness for the new Section. He presided at every indoor meeting of the Section until his death and attended every field meeting at Limpsfield until he moved to Devonshire. Visitors to Limpsfield Common will remember his assistance to all, no matter in what subject they specialised. Many were privileged to be his guests at Bullens Lee, where his collections and garden and genial hospitality were always appreciated. His long residence at Limpsfield and knowledge of the local inhabitants and local history greatly aided the Section's studies. Later, when he paid short visits to London from Devon, he invariably gathered a few members to join him for a tramp on the Common. It was therefore only fitting that he should die in harness as Founder Chairman of the Ecological Section.

L. P.

## Plant Galls.

Mr Robbins joined the Plant Galls Section in 1922, some five years after its inception, and his expert acquaintance with the British flora and his general knowledge of the different orders of insects proved of great value in the field meetings of the Section. His keenness induced him to travel across London for tramps in the Chilterns and elsewhere in the hope of adding to the records of the day, and his passing over has left a big void in the working capacity of the Section.

H. J. B.

---

## R. W. Robbins.

A Founder Member of the Grocers' Company's School Science Club in 1888, which changed its name to the Grocers' Company's School Natural History Society in 1891, from which sprang the North London Natural History Society in 1892, amalgamated with the City of London Entomological and Natural History Society in 1914, to form the London Natural History Society.

### OFFICES HELD.

*Grocer's Company's School Science Club* : 1888-91.

Secretary and Treasurer, 1891.

Committee Member, 1888-90.

*North London Natural History Society* : 1892-1914.

President, 1898.

Vice-President, 1899-1901.

Secretary, 1892, 1902-10 : 10 years.

Curator, 1895-97.

Council Member, 1893-94.

President, Research Section, 1911-13.

Secretary, Lepidoptera Research Committee, 1912-14.

*London Natural History Society* : 1914-41.

President, 1920.

Vice-President, 1914-15, 1917-19, 1921-41 : 29 years.

Minuting Secretary and Recorder, 1916.

Botanical Section : Chairman, 1917-25 ; Secretary, 1935 ; Recorder, 1928-41.

Ecological Section : Chairman, 1936-41.

Entomological Section : Chairman, 1928-34 ; Recorder, 1928 ; Committee Member, 1935-41.

Plant Galls Section : Committee Member, 1928-41.

### PAPERS READ.

*Grocers' Company's School Science Club* : 1888-91.

1888, Oct. 12 : The Planets.

1889, Apr. 5 : The Sun.

1890, May 2 : History of the Surrey Hills.

1891, Apr. 24 : Weather Forecasts.

Aug. 21 : The *Eupitheciae*.

*North London Natural History Society : 1892-1914.*

- 1893, Mar. 9 : Our British Orchids.  
 1894, Mar. 22 : Are the Planets Inhabited ? (Debate).  
     Apr. 12 : Ferns.  
     Oct. 25 : Does Nature Paint for Ornament only ? (Debate).  
 1895, Oct. 24 : Mountain Plants.  
 1896, Oct. 8 : Transplantation—is it justifiable ? (Debate).  
 1897, Apr. 8 : The Ferns of Britain. (Discussion).  
     Dec. 2 : Insectivorous Plants.  
 1898, Jan. 6 : PRESIDENTIAL ADDRESS.  
     May 5 : Insectivorous Plants.  
     Aug. 18 : Alpine Lepidoptera and their British Allies. (Discussion).  
 1899, June 15 : Evolution of Scenery.  
 1900, May 3 : Research Work in Natural History Societies. (Discussion).  
 1901, Aug. 13 : Notes on the Epping Forest Flora.  
 1903, Mar. 24 : Evolution of Scenery.  
 1904, May 10 : Alpine Flowers in our Gardens.  
 1905, July 11 : What is a Native Plant ? (Discussion).  
 1906, Mar. 13 : The Structure of the Earth's Crust.  
 1907, June 11 : The Origin of Some of our Cultivated Plants.  
 1910, Feb. 22 : The Weather.  
 1912, Jan. 26 (Chingford Branch) : Report on Botany for 1911.  
     May 14 : Nature in Epping Forest.  
     June 28 (Chingford) : Practical Hints on Growing Alpine Plants.  
     Oct. 8 : Botany Gossip.  
 1913, June 27 (Chingford) : Some Forest and Hedgerow Trees.  
     Sept. 29 (Woodford) : Some Forest and Hedgerow Trees.  
     Oct. 14 : Some Forest and Hedgerow Trees.  
 1914, Sept. 10 (Chingford) : The Smaller British Butterflies.  
     Dec. 28 (Woodford) : Hairstreaks, Blues and Skippers.  
 1917, Nov. 12 (Chingford) : The Origin of Some of our Cultivated Plants.  
 1919, Mar. 10 (Chingford) : The Colours of Flowers.  
 1920, Jan. 12 (Chingford) : The Trees of Epping Forest.  
     Sept. 21 : The British Violets. (Discussion).  
     Dec. 7 : PRESIDENTIAL ADDRESS.  
 1923, Sept. 18 (with E. B. Bishop) : Botanical Experiences in 1923.  
 1924, May 6 : The Flora of the Limpsfield District.  
     Sept. 2 : The Birds of the Limpsfield District.  
 1925, Mar. 9 (Chingford) : Trees of Epping Forest.  
 1926, Sept. 7 : Recent Work on Insectivorous Plants.  
     Sept. 21 (Plant Galls Section) : Insects and Galls of the Genus *Tillia*.  
 1928, Jan. 3 (Botanical Section) : Ferns. (Discussion).  
     Sept. 18 (Botanical) : Flowerless Flowering Plants.  
 1930, Jan. 7 (Entomological Section) : Recollections of Lyndhurst 30 Years Ago.  
     Nov. 18 (Botanical) : Grasses.  
 1931, Sept. 8 (Botanical) : Some Preliminary Remarks on Brambles.  
 1933, Nov. 14 (Botanical) : Rushes and Sedges.  
 1934, June 5 : Random Notes on Butterflies.  
 1935, May 28 (Botanical) : British Gentians.  
 1936, Sept. 29 (Botanical) : Discussion.  
 1937, Feb. 2 (At Annual Exhibition) : Insect-eating Plants.

Total : 56 papers read in 50 years.

## CHIEF PAPERS CONTRIBUTED TO THE "LONDON NATURALIST."

- The Flora of Epping Forest. *Trans. Lond. Nat. Hist. Soc.*, 1915, p. 44.  
 The Violets of Limpsfield Common. *L.N.*, 1924, p. 16.  
 On the Occurrence of Certain Ferns in Surrey. *L.N.*, 1925, p. 9.  
 Botanical Records of the London Area. *L.N.*, 1927-35.  
 A Note on the Wryneck. *L.N.*, 1930, p. 132.  
 Noteworthy Plants in the London Area. *L.N.*, 1933, p. 97.



- Note on the Flora of a Bracken Area on Epsom Common, Surrey. *L.N.*, 1936, p. 42.  
 Preliminary Observations on the Topography, Geology, Climate, Utilisation and  
 Management, and Vegetation of Limpsfield Common. *L.N.*, 1937, p. 47.  
 Bracken on Limpsfield Common. *L.N.*, 1937, p. 53.  
 Botanical Records in 1938. *L.N.*, 1938, p. 31.  
 Lepidoptera of a London Garden Fifty Years Ago. *L.N.*, 1938, p. 40.  
 The Flora of Limpsfield Common. *L.N.*, 1938, p. 62.  
 The Flora of Limpsfield Common (2). *L.N.*, 1939, p. 25.  
 Lepidoptera of Limpsfield Common, 1937-39. *L.N.*, 1939, p. 27.  
 Willowherbs. *L.N.*, 1940, p. 6.

### Charles Oldham.

We also regret to record the death of that great field naturalist, Charles Oldham, at Berkhamstead, on April 3, 1942. Charles Oldham joined the Society in 1926 and was a most valued member of the Botanical, Ecological and Ornithological Sections. Excellent detailed accounts of his career and natural history attainments have appeared in *British Birds* and *The Ibis*.

### Rear-Admiral Axford.

The Botanical Section of the Society has suffered a great loss in the death at King Edward VII Hospital, Windsor, on February 23, 1942, of Surgeon Rear-Admiral Walter Godfrey Axford, C.B., R.N., at the age of 81. He joined the Society in 1931 and was also a Fellow of the Linnean Society. He was a very keen and capable botanist, and very popular with all who knew him.

### Absent Friends.

The following members serving overseas or in prisoner of war camps would be very glad to receive letters from other members:—

2/Lt. P. W. E. Currie,  
 F. Battery, 4th Regt., R.H.A.,  
 M.E.F.

F/Lt. G. Beven,  
 45 Air School,  
 Oudtschoorn, Cape Province S.A.

2/Lt. R. C. Homes,  
 19 Fd. Battery, R.A.,  
 9 Fd. Regt., R.A.,  
 c/o A.P.O., 1810.

Pte. David Morgan, 7740,  
 British Prisoner of War,  
 Stalag XXI.A,  
 Germany.

Capt. C. A. Norris,  
 B. Coy., 4th Gp.,  
 Auxiliary W.A.A.S.C.,  
 A.P.O., S.101,  
 W. Africa Force.

Sgt. Pilot P. W. Ratcliff,  
 British Prisoner of War,  
 Stalag VIII.B,  
 Germany.

Sub. Lt. J. S. Wightman, R.N.V.R.,  
 H.M.S. *Centurion*,  
 c/o G.P.O., London.

## The Royal Fern (*Osmunda regalis* L.) in Surrey.

By L. G. PAYNE.

---

OF all our native ferns it is probable that the subject of this note is, paradoxically, one of the most widely known, and yet least often seen. It is known perhaps to the man in the street by literary association, or by spasmodic familiarity with well-cultivated specimens in public parks, while the contemporary novelist occasionally makes use of it to add local detail to a Devonian setting. The amateur horticulturist knows that the Royal Fern imparts an air of distinction amongst humbler relations, while frequent luxuriant specimens in cottage gardens suggest a commendable appreciation of fern beauty, the moral effect of which, however, has very possibly been discounted by the earlier spoliation of a neighbouring natural habitat.

To-day the common Male Fern is hawked by the score in pedlars' sacks, but it would appear that at one time *Osmunda* shared this inglorious fate. W. H. Bowles, in his *My Garden in Summer*, p. 170, refers to the "magnificent old *Osmunda regalis* with a history." "It was bought," he says, "many years ago from a tramp in Fleet Street who was carrying it on his back."

The Royal Fern is also called the Flowering Fern, and Tree Fern, and when a native plant possesses a number of common and accepted English names based on obvious characteristics, and which are not merely book names invented to ease the path of some would-be nomenclator, we may accept this as evidence of the plant's popularity.

It is not my purpose here to describe the fern, this being the proper function of a Flora, but some observations on its Surrey distribution may be of interest. Brewer, in *Flora of Surrey*, 1863, divides the county into nine sections for recording purposes, and in six of these gives records for the fern. Salmon, in *Flora of Surrey*, 1931, states "now very rare . . . we have records from 55 stations in the county." "In most of these the plant is now extinct and in only four cases has it been reported since 1900."

Salmon's reference to 55 stations is noteworthy, and it might appear at first sight that the fern had considerably increased in local distribution since the compilation of the earlier Flora, but I think the explanation lies in the certainty that the county had been considerably better "worked" botanically in the wide period intervening between the publication of the two Floras.

In these circumstances it is pleasing to put on record the re-discovery of this plant quite recently in two localities in West Surrey. The first was in the summer of 1938 when my brother showed me an undoubted wild specimen of the fern of about five years' growth, and

the second was a slightly larger plant found by me this year on terrain of identical ecological character some ten miles distant.

Both plants were growing in typical country of Bagshot Sand formation, the dominating flora being Scots Pine rising from a ground vegetation of *Molinia* and Ling. Both ferns, curiously enough, were of approximately the same age, and both grew from crowns horizontally embedded in the damp northern face of a shallow ditch.

It is probable that this western border of the county was in earlier days a stronghold of *Osmunda*, and it is not unreasonable to assume that these plants originated from spores shed by mature plants then growing in secluded isolation where their fruiting fronds were free to ripen secure from human gaze, and that germination took place in a year when weather conditions were particularly favourable over a comparatively extended area.

The bright yellow-green fronds were only too conspicuous to a wandering botanist, but it is to be hoped that at least some other sporelings nurtured in that favoured year may live on in remoter sites to perpetuate their kind.

---

## Plant Gall Records for 1941.

Compiled by H. J. BURKILL, M.A., F.R.G.S.

---

ONCE more conditions were a handicap, both war and weather curtailing observations. The Oaks in many places were badly frosted, and in others defoliated by *Tortrix viridana* L., so that many species of spring galls were scarce. Exception should be made for *Diplolepis taschenbergi* Schl. and *D. similis* Adl., which were locally plentiful. *Andricus xanthopsis* Schl. and *A. schlechtendali* Mayr. were plentiful on a few trees. In the autumn *Neuroterus laeviusculus* Schenck was more often seen than usual, while Mr Niblett reported *Diplolepis disticha* Htg. and *Andricus collaris* Htg. in some numbers.

In a box labelled "Amersham, June 1927," which had been overlooked, I found some galls of *Biorrhiza pallida* Oliv. from which many flies had emerged. A count gave 65% females, 30% fully-winged males, and 5% males with wings one-third the normal size.

Galls of *Aulacidea tragopogonis* Thoms. provided a number of flies of this species and only three specimens of other genera, so the host flies had not been much attacked by intruders. Fresh galls this year seemed to be scarce, and no *A. pigeoti* Kieff. were recorded. *Aylax papaveris* Perris and *Liposthenes latreillei* Kieff. were locally plentiful, as were some species of *Rhodites*. Messrs M. Niblett and J. Ross hope to be able to investigate some points regarding the last-named genus raised by Mr R. B. Benson.

*Sesia formicaeformis* Esp. was taken galling *Salix atrocinerea* Brot. on Bookham Common. *Diplolepis muralis* DC. provided us with two new species to our lists: (1) *Ceuthorrhynchus pleurostigma* Marsh

galling the root, and (2) a *Cecidomyid* gall, possibly Houard 2559 *Con-tarinia* sp. The flower bud swollen to three times its normal width, 4.5 mm. diameter and 6 mm. from base to apex. Sepals thickened, brownish-green in colour, while the petals are crimson with white spots. Five small white *Cecidomyid* larvae were noted at the base of the petals. Both these galls were found in the garden at Fetcham.

*Perrisia bryoniae* Bouche was very plentiful in Surrey, much more so than it has been since first recorded (*L.N.*, 1920). Capt. A. Dunston sent from Wiltshire some galled heads of *Genista tinctoria* L. similar to those due to *Perrisia genisticola* F. Lw., but containing orange-coloured larvae instead of white ones. New to our records.

*Oxya flavipennis* H. Lw. was again found at Fetcham, but the flies had emerged. The galls attributed to *Melanagromyza simplicoides* Hendel were once more found on *Salix atrocinerea* Brot. on Bookham Common and Boxhill, while at Bookham similar galls were found on *Populus tremula* L. As was pointed out by Dr R. S. Bagnall (*L.N.*, 1930), *M. simplicoides* and *Agromyza schineri* Gir. seem to have been confused and further work is required to decide the position.

Mr Niblett has again bred *Myopites blotii* Brep. and *M. exima* from Isle of Wight plants. *Euribia stylata* F. was very abundant in the Fetcham district on *Cnicus lanceolatus* Scop.

Various species of *Eriophyidae* were noted but the only addition to our lists seems to be *Phyllocoptes anthobius* Nal. on *Galium uliginosum* L., found in September on Bookham Common.

*Crepis virens* L. was found at Fetcham attacked by *Anguillulina dipsaci* Kuhn. A fresh host plant for this eelworm.

Bacteria nodules were found on roots of Loganberry.

---

## British Butterflies in 1941.

Compiled by H. J. BURKILL, M.A., F.R.G.S.

---

**H**ANDICAPS similar to those of the previous year were again imposed on lepidopterists, many of whom were fully engaged on national service or were not allowed to visit some of their favourite localities, and thus what should have been an interesting season could never be studied to the full. For much of the material from which these notes are compiled I desire to express my thanks to the following correspondents: Misses E. M. Gibson, C. E. Longfield, M. E. Miller and A. E. Wattson, Brig. General B. Tulloch, Major J. C. Eales-White, Drs K. G. Blair and W. J. Fordham, Messrs S. Austin, S. C. S. Brown, C. L. Collenette, G. W. Collett, W. L. Colyer, F. D. Coote, G. F. Crowther, R. Cyriax, J. E. S. Dallas, L. R. Devenish, R. S. R. Fitter, W. E. Gaze, K. P. Keywood, E. B. Pinniger, C. H. Tait, P. R. Tomlinson, and G. Waller.

The weather was not of the best—a severe winter followed by a long cold spell and then four weeks of summer, with a return to tem-

peratures lower than normal. Though there were several early appearances most broods were late in developing, and some species continued on the wing beyond the usual time. Without being a great "Clouded Yellow" year this species was very abundant in places. Other species also provided considerable interest.

*P. aegeria* L. was generally plentiful though some correspondents do not record it. *P. megera* L. was abundant. *S. galathea* L.: Not up to usual numbers. *E. semele* L.: Plentiful. *M. tithonus* L.: Common. *M. jurtina* L.: Plentiful. *C. pamphilus* L.: Generally common. *A. hyperanthus* L.: Very irregular; plentiful in some districts and scarce in others.

*A. selene* Schiff. and *A. euphrosyne* L.: Locally plentiful. *A. aglaia* L. and *A. cydippe* L.: In small numbers except in Monmouth (B.T.), where they were plentiful. A fine male of the last species was noted at Cobham, 2nd October (J.C.E.W.). *A. paphia* L.: A few records, including one from Epping Forest (E.B.P.). *E. aurinia* Rott.: Near Carlisle (K.G.B.) and in limited numbers in several places in South Wales (C.H.T.). *V. atalanta* L.: Generally plentiful. *V. cardui* L.: Widespread in small numbers. *A. urticae* L.: Common. *N. io* L.: Generally plentiful and abnormally so in some places, and is apparently continuing to extend its range northwards, being reported from Perthshire (C.E.L.). *P. c-album* L.: Plentiful to abundant in many places and shows still further expansion. The record for this species a year ago should have read "Dovedale, East. Glos." to distinguish the locality from the better known one between Derbyshire and Staffordshire. *Ab. Hutchinsoni* was seen at Bookham and at Fetcham, the last one on 27th September. *A. iris* L.: Twice seen in Surrey in the Society's area and another specimen reported captured. *L. camilla* L. is keeping up its recent extension and its dark varieties seemed to be more often seen than is usually the case.

*H. lucina* L. has probably suffered a set-back in Surrey as some of its best habitats have been ploughed up for food production. Only two correspondents report it from other districts, so it was either overlooked or was not plentiful. Blues were again less than normal except possibly *P. icarus* Rott. and *L. argiolus* L. *L. phlaeas* L.: Perhaps better than the previous year. *C. rubi* L.: Not many reported except in S. Wales, where it was unusually numerous in its haunts (C.H.T.). *T. quercus* L. and *S. w-album* Knoch. were reported from a few localities.

*L. sinapis* L.: Only noted once. *P. brassicae* L. and *P. rapae* L. were common but nowhere in the swarms of the two previous seasons. *P. napi* L.: Much fewer as a rule, but the commonest White near Carlisle (K.G.B.) and unusually common on Parley Heath, Dorset (S.C.S.B.). *E. cardamines* L.: Generally below normal, but fairly common during July and August (K.P.K.), which points to a second brood having been produced. *C. hyale* L.: Reported from Sidmouth (W.L.C.), Bournemouth (S.C.S.B.), and Ashford, Kent (G.W.). *C. croceus* Fourcroy seems to have invaded the country in some numbers in two regions, one of which was in the east and the other in the south-



west. They were in quantities at Skegness, Lincolnshire, and at Little Clacton, Essex (W.E.G.), and very common at Sidmouth and further west. Reported to be numerous in Wilts (G.W.C.), and plentiful along the Glamorgan coast (C.H.T.), and near Abergavenny, Mon. (B.T.). Fairly common at Paxford, E. Glos., and two seen at Rossall, 4th October (P.R.T.). Several were seen in Yorkshire and others further north up both the east and west coasts of Scotland, and recorded from the Hebrides (Prof. J. W. H. Harrison). Scattered individuals seen in other places such as the Downs in Surrey, Sussex, and Kent, and in Herts. One var. *helice* taken on Box Hill, Surrey, from which larvae were obtained (K.G.B.). *G. rhamni* L.: About normal numbers. Larvae not so much parasitised as usual. *P. machaon* L.: One seen near Yarmouth, I.O.W. (L.R.D.).

*E. tages* L., *S. malvae* L., *A. sylvestris* Poda, *O. venata* Bremer & Grey: All frequent in places. *A. acteon* Rott.: A few at one spot in Dorset (S.C.S.B.). *H. comma* L.: Several in a new locality (E.M.G.).

---

## Mammal Recording in 1939-41.

By R. S. R. FITTER, F.Z.S.

---

The war has naturally restricted the volume of mammal records coming in, but some of the more interesting ones accumulated during the past three years may be of interest.

There are a number of changes in the list of the mammals, reptiles and amphibians of the London area in the *London Naturalist* for 1937 (p. 92).

### MAMMALIA.

#### CHIROPTERA.

Leisler's Bat (*Nyctalus leisleri* (Kuhl)): Admitted on the strength of one recorded from Chislehurst in the Woolwich and West Kent Survey (1909), must now be deleted as Mr Vesey-Fitzgerald informs me that Harting examined it and considered it a Noctule (*Nyctalus noctula* Schreber).

#### RODENTIA.

Continental Red Squirrel (*Sciurus v. vulgaris* L.): Added to the list on the strength of a specimen picked up in Epping Forest in January 1936 by Mr F. J. Johnston and identified as of this subspecies by Capt. G. Dollman of the British Museum (*Lond. Nat.*, 1938, p. 16, footnote); as suggested there, all the Epping Forest red squirrels may be of this subspecies.

### REPTILIA.

#### SQUAMATA.

Sand-Lizard (*Lacerta a. agilis* L.): Recorded from a chalk quarry about 1920; but as this is right outside their normal range, and there is a possibility of confusion with escaped specimens of *Lacerta viridis* L., should be placed in square brackets.

## AMPHIBIA.

## SALIENTIA.

Edible Frog (*Rana esculenta* L.): One in Bishop's Pond, Richmond Park, June 23, 1931 (J. Rudge Harding in Report of Committee on Bird Sanctuaries in Royal Parks, 1931); also recorded from two other localities in Surrey since 1937.

The following records are of species which have only been reported once or twice in the London area since 1920:—

Water-Shrew (*Neomys fodiens bicolor* (Shaw)): One caught in a trap baited with cheese in a larder at Godstone, Dec. 9, 1932 (F. W. Frohawk in *The Field*, cxli, p. 287).

Polecat (*Mustela p. putorius* L.): One which was shot at Copse Hill, Wimbledon, in 1935 (*Journ. Wimbledon Nat. Hist. Soc.*, Jan. 1939), was identified by Capt. G. Dollman, who has no doubt that it escaped from captivity.

Yellow-necked Mouse (*Apodemus flavicollis wintoni* (Barr.-Ham.)): One caught in a cupboard in a house at Ongar by G. Dent, Nov. 1921 (*Essex Nat.*, xx, p. 89).

Harvest-Mouse (*Micromys minutus soricinus* (Hermann)): Nest found every autumn in thick growth on allotments in Cambridge Road, Wimbledon; one year a mouse jumped out when disturbed (R. E. Windsor, *Journ. Wimbledon Nat. Hist. Soc.*, Apr. 1936).

Roe-Deer (*Capreolus c. thotti* (Lönnberg)): A doe was seen on one of the more inaccessible slopes of Box Hill, just on the boundary of the area, by Mr S. Micklethwaite (*Field*, July 1, 1939), about the same time as Major G. C. Garrick saw a buck cross a road near Holmwood Common, about two or three miles outside the area (*Field*, June 3, 1939).

The Recorder will be glad to receive any records of mammals, reptiles, and amphibians, however common, seen within twenty miles of St Paul's Cathedral.

Thanks are due to the following 27 observers for notes sent in during the past three years:—W. Austin (Greenwich Park), M. Blackmore, H. J. Burkill, D. Campbell (Regent's Park), C. P. Castell, K. R. Chandler, W. L. Colyer, P. W. E. Currie, R. P. Donnelly, V. R. Garrett, W. E. Gaze, P. J. Hanson, T. Hay (Central Parks), F. J. Johnston, A. R. Mawson (L.C.C. Parks Dept.), D. A. T. Morgan, Mrs C. P. Park, W. D. Park, L. Parmenter, E. R. Parrinder, R. S. Pinks, J. E. Roberts, C. W. M. Rogers, J. Rowan, P. Thompson, Mrs W. Boyd Watt, Mrs M. M. Wilson.

---

### Out of Print.

The *London Naturalist* for 1926-28, the *London Bird Report* for 1938, and Reprints Nos. 1 (Birds of Epping Forest) and 3 (London Reservoirs and their Influence on Bird Life) are out of print. It would be much appreciated if Members who have copies of these for which they have no further use would send them to the Editor for file purposes, and supply to scientific workers and libraries.

## The Survey of Limpsfield Common. FIFTH YEAR.

### The Diptera of Limpsfield Common.

By L. PARMENTER, F.R.E.S.

THE complete study of the diptera of a small area is a bigger task than one person can possibly accomplish in a lifetime. As the "Limpsfield" list is now longer than the only published list of Surrey diptera (E. E. Austen: *Victoria County History of Surrey*, Vol. I, 1902) it seems worth recording.

The maps of the Common and descriptions of the areas and its fauna and flora have appeared in *The London Naturalist*, 1936-40.

**METHODS.** Collecting was done with net, tube and pillbox, all captures being tubed or boxed and labelled in the field. During the period November 1936 to August 1940 collections were made in all subdivisions of the area. It was not possible to confine one's attention even when alone to diptera throughout a visit and several sub-divisions were rarely visited. Forty visits were made by the writer and specimens were taken in every month of the year, about 2500 being brought home for identification. Fortunately, other visitors occasionally helped to add to the knowledge of the fly fauna.

Almost no attempt was made at breeding. In addition to the time factor as a limitation to the work undertaken, lack of knowledge was a great drawback. It would be obviously unfair to burden already overworked systematists by "dumping" collections on to specialists for naming. Identification was, therefore, attempted by myself, though many puzzling specimens were submitted to experts, who were always ready to help and to whom I owe my grateful thanks. A large number of specimens still await identification.

**FURTHER STUDY.** Visits to the Common had to cease in 1940, but when time permits a great deal of study still needs to be attempted. Some of the work can be carried out in other localities. The breeding biology of the majority of species is either unknown or only slightly known. The question of numbers has been little studied. Some notes have been made of visitors to flowers but this type of work has been neglected as it has by dipterists generally in this country. The habitats of larvae have received little attention. There is also ample scope for studies in the longevity of each species, feeding habits, courtship and mating, daily rhythm of life, etc., tasks which will be gradually undertaken as the number of dipterists grows and their studies widen. At present ecological work is still handicapped by the lack of handbooks. Far too much time is spent in priority questions by systematists in an attempt to attain that ever elusive goal of stability of nomenclature.

**DISTRIBUTION.** The distribution of flies in an area is rarely simple of explanation. There is still too much unknown even about the commonest species. However, certain generalisations probably realised by all entomologists but possibly not noticed by other naturalists may be made. Though almost all diptera are winged, many are weak fliers and air currents play an important part in their dispersal. Warmth and moisture are noticeable factors. Flies are much given to "sunning" and most species are much more active in sunshine than at other times. Many flowers will only open to visitors then and some *Asilidae* feed much more readily in sunshine when, indeed, their prey are visually more abundant and active. They are more open to attack by birds when active in the sunshine. Mating habits influence distribution as will be remembered from the swarming of *Nematocera*, the hovering of *Syrphidae* where males poise in the air awaiting the passage of females. The courtship display of many *Dolichopodidae* necessitates gathering at wet mud or on leaf surfaces open to bright light, which enhances the ornamentation on the waving wings and legs. The dung fly haunts flowers and leafy plants for nectar and prey but returns to the cow dung cake for mating and oviposition. Certain species, however, seem more restricted, being rarely found away from their larval home. The majority of *Trypetidae* confine themselves to their own particular plant species.

**HABITATS.** Certain habitats proved to be particularly frequented by flies. Both areas A. and T. produced as many species of flies as of flowering plants. The two plants attracting the greatest number of species were Bracken (120) and Bramble (80). This suggests that shelter plays an important part in controlling the location of a fly. The habit of growth of both these plants offers shade from rain and sun (not all flies like to bask). They reach a height sufficient to enable watching stands to be taken up by flies on the lookout for mates or prey. Their density of growth prevents extremes of climate and humidity beneath the outer layer. The nettle had a restricted distribution in the survey area and was severely treated by the Common Preservation Committee. Nevertheless, the shelter of its dense patches possibly proved to be the attraction for the 41 species found on the plant. Trees also are attractive to diptera, but the difficulty of collecting or even observing those using the upper surface of the woodland canopy prevents the average collector from studying this aspect.

The woodland areas, generally, whether open or closed, held greater numbers of species than the healthland areas. The pools were disappointing, drying up each summer, but the pool in X dried only to swampy conditions. A patch of wet mud on the main ride through the wood T proved to be the only locality found for *Lonchoptera tristis* Mg., which was found there regularly in July to September.

The dung of animals had a characteristic fauna. *Cypselidae* occurred on that of horse, dog and rabbit. Many cow dung breeders of *Muscidae* were found on the Common but no cows visited the area.

## FLY ASSOCIATIONS OF THE AREAS.

AREA A. The *Calluna* area was a favourite haunt of *Sphaerophoria scripta* and other Syrphids, e.g., *Syrphus auricollis*, *S. vitripennis*, *Catabomba pyrastris*, *Melanostoma mellinum* visiting the flowers. Beneath the tufts, amongst the litter were *Sepsis cynipsea* and *S. fulgens*. The bracken when short was populated by *Chirosia albitarsis* and, when full grown, other species dominant included *Pycnoglossa flavipennis* and *Hybos culiciformis*. The birches and oaks were visited by the species found in the more wooded Areas. The pit was always well populated, in numbers and variety. Its rank growth of bracken and flowers, sheltered from the wind, made it an ideal fly haunt. At the southern edge a fine bramble bush was the haunt of *Syrphidae*, *Chrysotus gramineus*, *C. blepharoscetes*, *Bibio reticulatus*, *Xylota segnis*, *Dolichopus claviger*, *Sapromyza inusta* and *rorida*. 129 species were found in this small area.

AREA B. The *Calluna* area was not visited so freely as in area A. In the litter beneath, *Lonchoptera lutea* and *Parascaptomyza gramineus* occur. The birches, however, produced some interesting species: *Sargus iridatus*, *Thereva nobilitata*, *Ptychomyia selecta*, *Ptychoneura rufitarsis* and *Lonchae deuschii*.

AREA C. Hawthorns attracted several species of *Eristalis* to the flowers. *Lauxanidae* were numerous in the shade, being disturbed from brambles, bracken, etc., beneath the closed canopy. *Amaurosoma fasciata* appeared to be hunting for insects in the long grass edging the path.

AREA D. This sand pit, beloved by wasps and bees, was the chief locality for their parasites, *Metopia leucocephala* and *Sphecapata conica*. The gorse held *Tephritis conjuncta* and *T. vespertina* in winter.

AREA E. Though rather like area B, had a better growth of plants and some oaks. In consequence, flies were more numerous and varied. A fresh deposit of horse dung here once in April attracted *Cypselia equina*, *C. similis*, *C. hirtipes*, *Sphaerocera subsultans*, *S. pusilla* and *Leptocera scutellaris*. A male *Bombylius discolor* was seen hovering at a grass bank.

AREA F. The pool was the breeding place for *Culex pipiens* but, owing to its annual habit of drying up, was rather disappointing. On the bracken, bramble and other undergrowth a number of species associated with damp ground were to be seen, e.g., *Tetanocera elata*, *Campsicnemus curvipes*, *C. scambus* and *Dolichopus unguulatus*.

AREA G. The usual flower visitors of *Heracleum sphondylium* and hawthorns were found here.

AREA H. This triangular area with wooded sides and open bracken centre had the usual bracken and wood-haunting species and the flowers on the old rubbish dump attracted some flower-visiting species.

AREA Ka. The open side of the valley was not sheltered enough to hold many flies. The wooded upper level with its undergrowth attracted the usual bracken, bramble open-wood association. The presence of *Elgiva dorsalis* was welcome in November in the *Calluna*, which was then very barren.

AREA Kb. The valley side held few flies but the southern edge of brambles, trees and some bracken sheltered many. The rank grass and buttercups beneath the trees were always worth visiting in the summer months.

AREA L. A mixed gorse, heather, bracken area with some oaks had no particular fly association. The sallow bloom in spring attracted large numbers of *Egle muscaria*. The open turf attracted *Dysmachus trigonus*.

AREA M. The sycamore and rowan trees added to the attractions of this rather mixed wood and scrub area.

AREA Na, b. The usual bracken and *Calluna* species were present. The damp area in the depression attracted *Pyrophæna granditarsa* and *Trixa oestroidea* was found here.



AREA P. The pool in the pit dried up each summer but its area of *Juncus* attracted *Sepsis orthocnemis*, *Sympycnus desoutteri*, *Elgiva albiseta* and various *Ephrydidae*. Sallow bloom brought *Egle muscaria* and *Chloropisca circumdata*.

AREA Q. These birches were very disappointing and little was found on the undergrowth.

AREA R. The growth of nettles and flowering weeds around Links Cottage produced an abundance of flies.

AREA S. An area mostly of short turf and bare of flies but a visit from a *Volucella inanis* and a *Chrysotoxum festivum* to *Caucalis anthriscus* was noteworthy.

AREA T. 112 species have so far been noted from this area, which is mostly an oak wood with a patch of pure beech. This 19 acres held a nice varied population of flies. Fungus gnats were most numerous and varied here. The mud patch in the main ride regularly produced *Lonchoptera tristis*, a species not found elsewhere on the Common. The main haunt of *Rhagio lineola* and *Dexiosoma canina* on the Common was on the bracken under the oaks near the edge of the wood. The stink horn fungus attracted *Diastata fulvifrons*, *Dryomyza flaveola* var. *Zawadskii* and *Calliphora vomitoria* amongst others. Swarms of *Leptocera silvatica* were found on damp rotten tree stumps. *Platychirus albi-manus* and *Chilosia praecox* visited the flowers of Wood Anemone. Tree trunks were the haunts of *Tachypeza nubila* and *Medetera* species, just as they were in the open.

AREA U. The oaks and undergrowth attracted quite a number of damp woodland species and the beech hedge, which caught the afternoon sun, was the attraction for *Criorrhina floccosa*, *Leucozona lucorum*, *Syrphus albostrigatus* and *S. nitidicollis*. A heap of rotting grass cuttings produced *Stictoscatella quadrata*.

AREA V. A wind-swept, much trodden area practically destitute of flies. The sycamores at the edge held a few "basking" species such as *Lyphia dubia*, *Phorocera caesifrons*, *Syrphus bifasciatus* and *Gymnochaeta viridis*.

AREA W. Although this area held the greatest variety of plants, its fly population appeared to be less varied than several others. The pools dried up each summer.

AREA X. The shaded pool was never dry, though it generally became only a swamp in summer. *Pyschodidae* were very common here. The bracken under the trees sheltered many species. *Beris morrisii* and *Pachygaster atra* were found here.

AREA Y. The long grass and weeds held a few flies.

AREA Z. The usual open woodland species were found here but in small numbers, possibly owing to disturbance by pedestrians straggling from the main road.

The following list is little more than a collector's list but an attempt is made to indicate the habitat where each species was found and the month of occurrence. These details are too often omitted in "County lists" and taxonomic papers. To conserve space the following abbreviations are used:—

Bracken = *Pt.* Bramble agg. = *Rub.*

Unless otherwise stated the name of a plant indicates that the fly was on the foliage.

## NEMATOCERA.

## CECIDOMYIDAE. Gall Gnats.

Most of the larvae are causers of plant galls but others are predatory.

*Hartigiola annulipes* Htg. Galls found on Beech, *Fagus sylvatica* L. in Q, 8.viii.37, in W, 5.ix.37 (H. J. Burkill).

*Iteomyia capreae* Winn. Gall found on *Salix caprea* L. in F, 5.ix.37 (H.J.B.).

*Lasioptera rubi* Heeger. Gall found on stem of Bramble, *Rubus* sp. in P, 6.iii.38; T, 3.i.37 (H.J.B.).

*Macrodiplotis dryobia* Lw. Gall found on Oak, 6.vi.37 (H.J.B.): *volvans* Kieff. Gall found on Oak, 6.vi.37 (H.J.B.).

*Oligotrophus bursarius* Brem. Galls found on Ground Ivy, *Nepeta hederacea* Trev. in H, 7.xi.37, and T, 7.xi.37.

*Perrisia filicina* Kieff. Gall found on Bracken in Rb, 5.ix.37 (H.J.B.): *plicatrix* Lw. Gall found on *Rubus* sp. in Rb, 5.ix.37 (H.J.B.): *urticae* Perris. Gall found on Nettle, *Urtica dioica* L. in T, 6.vi.37 (H.J.B.).

*Tetraxyphus ater* Mg. on Heather, *Erica cinerea* L. in A, 6.xi.38 (det. F. W. Edwards), on Gorse, *Ulex europaeus* L., 1.v.38.

## MYCETOPHILIDAE. Fungus Gnats.

Larvae breed in fungi.

*Allodia crassicornis* Stan. in T, 7.xi.37 (H. Oldroyd, det. R. L. Coe).

*Apemon marginata* Mg. on dead leaves on ground in T, June.

*Apoliphthisa subincana* Curt. on Oak, C, 13.vi.38 (det. F.W.E.).

*Boletina gripha* Dz. on Heather, Nb, March.

*Bolitophila cinerea* Mg. in T, 1.i.39 (det. F.W.E.).

*Exechia* ? *lundstroemi* Lundr. off Gorse in D, Dec.

*Macrocera angulata* Mg. off *Pt.* in F, off ground under Oaks in T, June: *stigmoides* Edw. in A on *Pt.*, June, under Oaks, May: *vittata* Mg. on *Pt.*, A, June.

*Mycetophila fungorum* Deg. on Oak, A, Nov. (det. F.W.E.): *marginata* Winn. (det. R.L.C.) in T, 7.xi.37 (H.O.).

*Mycomyia cinerascens* Zett. on Nettles in pit in A, 2.v.37 (det. F.W.E.).

*Neoempheria pictipennis* Hal. on wood floor in T, June.

*Phorodonta flavipes* Mg. in T, 4.vii.37 (det. F.W.E.).

*Sciara nitidicollis* Mg. on Gorse Ka, Nb, May: *picipes* (det. F.W.E.) on Oak, A, and Hawthorn, E, May: *thomae* L. in Kb, Rb, in Ka on flower of Small Burnet Saxifrage, *Pimpinella saxifraga* L., and in Ub on flower of Yarrow, *Achillea millefolium* L. in August.

*Zygomyia notata* Stan. on Oak, A, 7.xi.37 (det. F.W.E.).

## BIBIONIDAE.

Larvae breed in rotting vegetation.

*Bibio ferruginatus* L. on *Rub.*, H, June: *johannis* L. on Gorse, Ka, on Umbellifer, S, May: *laniger* Mg. on Beech, Ub, May: *marci* L. (St Mark's Fly) on Birch, B, on dead *Pt.*, X, in long grass, Zb, and in H, May, June: *reticulatus* Lw. visiting flowers of Dandelion, *Taraxacum vulgare* Lann. and resting on all kinds of plants in most areas in April, May.

*Dilophus febrilis* L. in long grass, E, Kb, May: *femoratus* Mg. on Birch, B, June.

## CHIRONOMIDAE. Non-biting Midges.

Larvae breed in water and mud. I have not attempted to identify specimens taken.

## CERATAPOGONIDAE. Biting Midges.

Adult females "bite." Larvae breed in rotting vegetation.

*Culicoides chiopterus* Mg. attacking head of man at sunset, B, May.

## CULICIDAE. Mosquitoes.

Adult females "bite." Larvae breed in water.

*Culex pipiens* L. bred in pond in F, on Nettles, Rb, Oct.

## PSYCHODIDAE. Owl Midges.

Larvae breed in wet mud and decaying vegetation. Adults of some species pollinate Wild Arum. Though several species occur I have not attempted to identify specimens taken.

## PTYCHOPTERIDAE.

Larvae breed in mud.

*Ptychoptera minuta* Tonn. at pool in X, June : *scutellaris* Mg. at pool in X, June.

## TIPULIDAE. Crane Flies—Larvae Leather Jackets.

Larvae live in ground, some are aquatic, others breed in fungi and decaying wood.

*Limnophila* (*Phylidorea*) *dispar* Mg. at pool in X, June : *ferruginea* Mg. at pools in P, X, June, July : *lineola* Mg. off Birch, W, May.

*Limonia* (*Dicranomyia*) *chorea* Mg. under Oaks, A, Ea, T, Ub, May, Nov.

*Limonia* (*Limonia*) *nubeculosa* Mg. under trees and plants in most areas May to July and Nov. : *tripunctata* F. in long grass and *Pt.*, B, Kb, Rb, T, Ub, June.

*Limonia* (*Metalimnobia*) *bifasciata* Schr. in Oak wood, T, July.

*Limonia* (*Rhipidia*) *maculata* Mg. under Beeches, T, May.

*Nephrotoma flavipalpis* Mg. in Bracken areas in July and Aug. : *quadrifaria* Mg. on *Pt.* and *Rub.*, A, H, Uc, June, July : *scurra* Mg. in pit, A, Aug. and at pool in X, June.

*Tipula cava* Ried. in bracken areas, A, E, Kb, Rb, X, July : *fascipennis* Mg. on *Pt.*, H, June : *flavolineata* Mg. bred from decaying Oak branch, T, larvae parasitised by Tachinid, adults taken on *Rub.*, T, June : *luna* Westh. at pool in P, June : *lunata* L. in C, Kb, Rb, Ub, and W, June : *marmorata* Mg. on degenerate callunetum, Ra, and at pool, P, Oct. : *scripta* Mg. on *Rub.*, A, June : *variipennis* Mg. on Nettles, Rb, on *Rub.*, T, June : *vernalis* Mg. in most areas, May, June.

## TRICHOCERIDAE. Winter Gnats.

Larvae breed in decaying vegetation.

*Trichocera annulata* Mg. in many areas, Jan. to March, and Nov. Mr K. R. Chandler found Goldcrests eating this species in the Gorse bushes in W : *hiemalis* Deg. in many areas, Jan. to March, Nov. : *regelationis* L. in many areas, Nov. to March : *saltator* Harr. in many areas in Jan., Feb., May and Nov.

## BRACHYCERA — ORTHORRHAPHA.

## STRATIOMYIIDAE.

Adult visit flowers. Larvae breed in rotting vegetation or are aquatic. Some in the earth and dung.

*Beris chalybeata* Forster in long grass, *Pt.*, and Nettles, G, Kb, T, X, Zb, May, June : *morrisii* Dale in long grass and Nettles, A, T, Uc, X, Zb, June, July. 60-70 males seen hovering in X [vide *Ent.*, Sept. 1937] : *vallata* Forster on *Pt.*, H, July.

*Chloromyia formosa* Scop. in Ra, b, Ub, June, July.

*Microchrysa flavicornis* Mg. on *Pt.*, H, July : *polita* L. on *Pt.*, C, E, June, July.

*Pachygaster atra* Panz. on *Pt.*, X, July.

*Sargus iridatus* Scop. on *Pt.*, A, on Birch, B, June.

## RHAGIONIDAE.

Larvae breed in damp soil and are carnivorous.

*Chrysopilus aureus* Mg. in grass and low vegetation, H, T, July.

*Rhagio lineola* F. common on *Pt.* under trees, A, E, H, Kb, Rb, T, X, June, July : *scolopacea* L. in D, June : *tringaria* L. on *Rub.*, Kb, and *Pt.* in X, July.

## TABANIDAE. Horse Flies and Clegs.

Adult females "bite." Larvae breed in damp soil and are carnivorous.

*Chrysops caecutiens* L. on *Pt.*, and attacking man in A, Kb, June, July.

*Haematopota pluvialis* L. (Cleg) attacking man at fringe of treed area, A, C, G, T, July.

*Tabanus bromius* L. on *Pt.*, H, July.

## ASILIDAE. Robber Flies.

Larvae live in earth. Adults are predatory on other insects.

*Dioctria atricapilla* Mg. in long grass and visiting flowers of Buttercup, *Ranunculus repens* L. in June: *baumhaueri* Mg. mostly on tall *Pt.* but also on Oak, *Rub.* and grass, A, B, C, E, Kb, Nb, S, Uc, X, June to Aug. A ♂ was a captor of a Cynipid [Hym.] in Uc, 25.vii.37 [*Ent. Mon. Mag.*, 1941]: *rufipes* Deg. on Birch, B, and on Umbellifer, Ua, June.

*Dysmachus trigonus* Mg. on short turf and a grass bank, Lb, June.

*Epitriptus cingulatus* F. on *Pt.* and grass turf, E, G, La, July, Sept.

*Leptogaster cylindrica* Deg. on Bramble stem, Kb, June.

*Machimus atricapillus* Fln. mostly on *Pt.* but also on grass turf and roadside verge, A, G, Ka, b, Rb, July to Sept.

*Neoitamus cyanurus* Lw. on *Pt.*, A, T, June, July.

## BOMBYLIIDAE. Bee Flies.

Adults are flower visitors, mimic bees, and larvae live in nests of bees and wasps

*Bombylius discolor* Mik. hovering at grass bank, E, May.

## THEREVIDAE.

Larvae and adults are carnivorous.

*Thereva nobilitata* F. on Birch, B, June.

## EMPIDIDAE.

Larvae live in earth and like adults are carnivorous.

*Chelipoda melanoccephala* F. on *Rub.*, F, on *Pt.*, Ua, with Agromyzid as prey on *Pt.*, T, July [*Ent. Mon. Mag.*, 1941].

*Empis livida* L. on shaded plants including *Pt.*, *Rub.*, Na, Ua, b, c, June, July: *tessellata* F. on long grass, *Pt.*, *Rub.*, Nettle, Oak, and visiting Umbellifers including Hogweed, *Heracleum sphondylium* L., in most areas in May to July.

*Hybos culiciformis* F. almost confined to Bracken in several areas in July, Aug.

*Ocydromia glabricula* Fln. on *Rub.*, A, C, June, Sept.

*Tachypeza nubila* Mg. haunts tree trunks of Oak, Sycamore, Birch, and Aspen in H, S, T, June to Aug.

Many species taken await identification after the publication of Mr J. E. Collin's long promised work on this family.

## DOLICHOPODIDAE.

Carnivorous larvae living in rotten wood and damp earth. Adults, mostly metallic green, are predaceous on small insects.

*Argyra diaphana* F. taken on 6.vi.37 (G. Waller).

*Campsicnemus curvipes* Fln. on Nettles, A, at pool, F, P, July, Aug., Oct., Nov.: *pusillus* Mg. in T, Nov. (H.O.): *scambus* Fln. at pool, F, March, July, Sept.

*Chrysotus blepharosceles* Kow. on *Pt.*, *Rub.* in A, F, H, Kb in July: *cupreus* Macq. on *Rub.*, T, June: *gramineus* Fln. on mud patch in path, T, on *Calluna* but mostly on *Pt.* and *Rub.* A, C, E, F, H, Kb, T, Uc, June, to Aug.: *neglectus* Wied. on *Calluna* in A, *Pt.* in X, July.

- Dolichopus claviger* Stann. on Nettles, *Pt.* and *Rub.*, A, June, July : *festivus* Hal. on Elderberry, H, July : *griseipennis* Stann. on *Pt.*, T, X, July : *nubilus* Mg. at pool, W, June : *plumipes* Scop. at pool, P, on *Pt.*, X, July : *popularis* Wied. on Nettles, Ub, July : *trivialis* Hal. on Elderberry, H, and on *Rub.*, and *Pt.*, A, H, Kb, T, Uc, X, June, July : *ungulatus* L. at pools in F, P, X, June, July : *virgultorum* Walk. on *Pt.*, C, Uc, X, July, Sept. : *wahlbergi* Zett. on *Rub.*, A, tall grass and Elderberry, H, on damp mud patch, T, on *Pt.*, X, June, July.
- Gymnopternus cupreus* Fln. on *Pt.*, on mud patch, T, June : *metallicus* Stan. at mud patch, T, June.
- Hercostomus nigripennis* Fln. on *Pt.*, *Rub.*, short turf, in many areas, at pool, F, visiting flowers of *Potentilla erecta* Hampe in Kb and *Conopodium majus* Loret in C, June, July.
- Medeterus dendrobaenus* Kow. on tree trunks of Aspen, Birch, Oak, Sycamore, and a clothes post in La, Na, S, T, Y, Zb, in June, July and Aug. : *jaculus* Mg. on Aspen trunk, S, Aug. : *truncorum* Mg. on tree trunks of Aspen, Birch, Oak and Sycamore, and clothes post in La, S, Uc, in June, July, Aug.
- Poecilobothrus nobilitatus* L. on *Rub.* and about pool in F, P, July.
- Sciopus platypterus* Fln. on *Pt.* and *Rub.* in A, C, F, T, June, July.
- Sympycnus desoutteri* Par. on *Calluna* in A, in *Juncus* area in P, in June and Nov.
- Syntormon denticulatus* Zett. A ♂ was taken in a Bracken and Gorse tangle in Ka, 1.i.39.

## LONCHOPTERIDAE.

Larvae live in rotting vegetable matter.

- Lonchoptera furcata* Fln. on ground in wood, T, May : *lutea* Pz. around pools, in damp areas, Nettle beds, under crushed litter, in long grass and on a damp tree stump in many areas in Jan., Feb., Apl. to July and Nov. : *tristis* Mg. only taken at the mud patch in the wood T in July to Sept.

## PHORIDAE.

Some larvae are parasitic internally on Hymenoptera, etc., and others live in rotting vegetable matter. I have not studied this family, which is represented on the Common by several species.

## CYCLORRAPHA.

## PLATYPEZIDAE.

Larvae breed in fungi.

- Callimyia speciosa* Mg. under Oaks, T, June.

## PIPUNCULIDAE.

Larvae are internal parasites of Froghoppers, *Homoptera*.

- Chalarus spurius* Fln. swept in A, on *Pt.* in F, and on Lime in X, June and Aug.
- Pipunculus fuscipes* Zett. ♂ on Lime, X, 11.viii.40 (det. J.E.C.).
- Verrallia aucta* Fln. ♀ on *Pt.*, Uc, 7.vii.40 (det. J.E.C.) : *pilosa* Zett. on *Pt.*, H, 25.vi.39 (det. by and in Colln. J.E.C.).

## SYRPHIDAE.

Some larvae are predatory on *Aphididae*, etc., others internal plant feeders, some live in mud, others in dung and rotting wood. Some are commensals in nests of the social Hymenoptera. Adults are mostly flower visitors.

- Baccha elongata* F. on *Rub.*, H, June : *obscuripennis* Mg. flying over *Pt.* in A, X, May, Aug.
- Catabomba pyrastris* L. found resting on *Pt.*, *Rub.*, *Calluna* and Holly in A, Ka, P, Ra, Ub, July, to Sept.

- Chilosia albitarsis* Macq. on *Pt.* and visiting fl. of *Ranunculus repens* L. in A, C, Rb, X, June: *longula* Zett. visiting fl. of Goutweed, *Aegopodium podagraria* L., Rb, July: *praecox* Zett. on Beech, T, and visiting fl. of Dandelion, *Taraxacum vulgare* Schrank in P and Wood Anemone, *Anemone nemorosa* L. in T, May: *proxima* Zett. on Nettle in W, May, and visiting fl. of *Caucalis anthriscus* Huds. in S, Aug.: *pulchripes* Lw. on *Pt.*, *Rub.*, long grass, Sycamore, and visiting fl. of *Ranunculus repens* L. in E, F, Kb, Rb, Uc, Zb, in May to July and Sept.: *scutellata* Fln. visiting fl. of Hogweed, *Heracleum sphondylium* L. in F, July: *variabilis* Pz. on Beech, Ub, May: *vernalis* Fln. on fl. of *Hieracium pilosella* L. in Ub, July.
- Chrysogaster solstitialis* Fln. visiting fl. of Pig Nut, *Conopodium majus* Loret, in T, and *Heracleum sphondylium* L. in H in June and July.
- Chrysotoxum bicinctum* L. visiting fl. of *Heracleum sphondylium* L. and *Caucalis anthriscus* Huds. and on Lime in X, and on *Rub.* in A, July, Aug.: *cautum* Harris flying in Bramble patch in X, June: *festivum* L. visiting fl. of *Caucalis anthriscus* Huds. in S, Aug.: *verralli* Collin on *Pt.* in E, July.
- Criorrhina flocossa* Mg. on Beech, Ub, May (K. M. Guichard).
- Eristalis arbustorum* L. visiting fl. of *Aegopodium podagraria* L., *Heracleum sphondylium* L., *Caucalis anthriscus* Huds., *Anthriscus sylvestris* Hoffm., *Taraxacum vulgare* Schrank, *Senecio jacobaea* L., *Crataegus monogyna* Jacq., *Achillea millefolium* L. and *Potentilla erecta* Hamp. occurring in most areas in April to Sept.: *horticola* Deg. visiting fl. of *Heracleum sphondylium* L. and *Crataegus monogyna* Jacq. in C, G, Kb, May, June, Aug.: *nemorum* L. visiting fl. of *Heracleum sphondylium* in Ra, July: *pertinax* Scop. almost all areas from April to Aug. and to be found resting almost everywhere. Visiting fl. of *Heracleum sphondylium* L., *Conopodium majus* Loret, *Caucalis anthriscus* Huds., *Crataegus monogyna* Jacq., *Rubus fruticosus* L. and *Achillea millefolium* L.: *tenax* L. in most areas but not so common as *pertinax* from March to July on *Pt.*, *Rub.*, bare ground, visiting fl. of *Senecio jacobaea* L., *Crataegus monogyna* Jacq. and *Anthriscus sylvestris* Hoffm.
- Eumerus tuberculatus* Rond. in long grass and visiting fl. of *Ranunculus repens* L. in Kb, Zb, June.
- Helophilus frutetorum* F. on *Pt.*, A, June: *pendulus* L. at pool, P, on Lime, X, and Holly, T, May to Aug.
- Leucozona lucorum* L. on *Rub.*, G, W, and Beech, Ub, and in grass under trees, Kb, May, June.
- Melanostoma ambiguum* Fln. at Gorse flowers, Nb, Rb, April: *mellinum* L. mostly in long grass also on *Pt.*, *Calluna* and Oak, A, C, F, H, Kb, S, Zb, and visiting fl. of *Leontodon autumnalis* L., May to Aug. and Oct.: *scalare* F. resting on leaves of most trees and bushes. Visiting fl. of *Taraxacum vulgare* and *Ranunculus repens*.
- Merodon equestris* F. var. *equestris* F. on dead wood in sun, C, on grass track in sun, H, and flying down a ditch in Ub, June: var. *narcissi* F. visiting fl. of *Ranunculus repens*, Rb, June.
- Myiatripa florea* L. on *Pt.*, *Rub.*, A, D, X, and visiting fl. of *Heracleum sphondylium*, Kb, Ra, *Anthriscus sylvestris* in Ea, X, *Conopodium majus* in C, June to Aug.
- Neoascia podagrica* F. on *Pt.*, A, and on Lime about pool in X, and visiting fl. of *Caucalis anthriscus* in X, June to Aug.
- Orthoneura nobilis* Fln. on *Rub.*, Kb, July.
- Pipiza noctiluca* L. on leaves of Blackthorn, Oak, Beech, Sycamore and Bramble in A, C, H, Ub, W, and visiting fl. of *Ranunculus repens* in Na and Rb, May and June.
- Pipizella virens* F. on *Calluna*, A, at pool in P and visiting fl. of *Anthriscus sylvestris*, Ub, X, June, July.
- Platychirus albimanus* F. generally distributed in almost all areas, visiting fl. of *Calluna vulgaris*, *Anemone nemorosa*, *Ranunculus repens*, *Taraxacum vulgare*, and *Hieracium pilosella* L., April to Sept.: *clypeatus* Mg. in juncus of pool, P, July: *manicatus* Mg. in long grass, Zb, May: *peltatus* Mg. on *Pt.*, X, July: *scutatus* Mg. on *Pt.*, A, X, May, July: *tarsalis* Schum. swept off floor under Oaks, T, June.



*Pyrophaena granditarsa* Forst. Nb, Sept.

*Rhingia campestris* Mg. on Nettles, Beech, Ub, W, and visiting fl. of *Heracleum sphondylium* in A, and *Caucalis anthriscus* in S, May, June, Aug.

*Sericomyia borealis* Flin. on Pt., A, July.

*Sphaerophoria menthrasti* L. and *scripta* L. These both occur in *Calluna* areas in July and Aug., but as the genus requires revision I feel it is best to omit other records.

*Syritta pipiens* L. resting on bare sand, *Juncus*, Pt., *Calluna*, and visiting fl. of *Aegopodium podagraria* L., *Conopodium majus*, *Achillea millefolium* L. in most areas in June to September.

*Syrphus albostriatus* Flin. on Pt., Beech and Sycamore, A, M, U, W, May, July : *auricollis* Mg. var. *maculicornis* Zett. on Rub., visiting fl. of *Calluna vulgaris* Hull, *Heracleum sphondylium* and *Ranunculus repens* L. in A, T, Uc, Zb, June to Aug. : *balteatus* Deg. hovering over paths in T and resting on the leaves of various trees and bushes of most areas, visiting fl. of *Rubus fruticosus* L., *Ranunculus repens* L., *Heracleum sphondylium* L. : *bifasciatus* F. hovering over path in C and resting on the leaves of various trees and shrubs of many areas, visiting fl. of *Crataegus monogyna* Jacq. in May, June : *cinctellus* Zett. on Oak, Sycamore, at pool in X, and in all wooded areas, visiting fl. of *Conopodium majus*, May to Aug. : *corollae* F. on Pt. and in long grass, visiting fl. of *Erica cinerea* L., *Ranunculus repens*, *Conopodium majus*, *Caucalis anthriscus*, *Hypochaeris radicata* L. in A, B, E, G, Nb, S, T, Zb, June to Aug. : *luniger* Mg. on Oak, Rub. and Pt. in G, Kb, Nb, April, June to Sept. : *nitidicollis* Mg. on Beech and Oak, C, Ub, May : *punctulatus* Verr. on Hawthorn, Rub., in A, Ka, Rb, April, May : *ribesii* L. generally on Pt. but also on leaves of trees, visiting fl. of *Aegopodium podagraria* L., *Ranunculus repens*, *Crataegus monogyna* in A, C, H, Kb, La, M, Na, Ra, T, X, May to Sept. : *torvus* O.S. on Pt., H, Kb, Rb, April, July : *umbellatarum* F. in A, Aug. : *venustus* Mg. on Beech and Holly in C, Kb, Ub, May, June : *vitripennis* Mg. on leaves of trees, shrubs and herbs in A, M, Nb, P, T, W, in Apl., May, July, Aug.

*Volucella bombylans* L. var. *bombylans* L. at grassbanks in Lb, June : var. *plumata* Deg. on Nettles and Bramble leaves, Uc, July : *inanis* L. visiting fl. of *Caucalis anthriscus* Huds. and *Achillea millefolium* L. in S, Aug. : *pelucens* F. hovering over grass track, on Oak and visiting fl. of *Rubus fruticosus* L., *Aegopodium podagraria* L. and *Heracleum sphondylium* L. in Kb, Ra, b, S, T, Uc, X, June to Aug.

*Xanthogramma citrofasciatum* Deg. visiting fl. of *Conopodium majus* Loret, Ub, June : *ornatum* Mg. on Rub., and visiting fl. of *Ranunculus repens* L. in H, Kb, June, July.

*Xylota segnis* L. Almost always running on Bramble leaves but also on Pt. and Oak, A, C, F, H, T, Ua, May to July, Sept.

#### CONOPODIDAE.

Larvae parasitic on Hymenoptera and Orthoptera.

*Conops quadrifasciata* Deg. on Pt. in Kb, W, Sept.

*Myopa buccata* L. on Nettles in Y, May.

*Sicus ferrugineus* L. on Pt. in P, July.

#### TACHINIDAE.

Larvae are mostly parasitic on Lepidoptera but some on Beetles, Woodlice, Mollusca and Earthworms. Others are coprophagous. The family includes most of the Bluebottles and Greenbottles.

*Bucentes cristata* F. on *Calluna*, A, Aug. Tachinid larvae found in larvae of *Tipula flavolineata* Mg. may have been of this genus.

*Calliphora erythrocephala* Mg. in most areas on leaves and tree trunks, April to June : *vomitaria* L. in Ra, T, Ub, X on leaves, visiting fl. of *Heracleum sphondylium* L. and Stinkhorn fungus, *Phallus impudicus* Pers., in May, July and Nov.

- Degeeria collaris* Fln. on Holly, Na, May (det. C. J. Wainwright).  
*Dexiosoma canina* F. although almost confined to *Pt.* under trees, some seen on Beech and *Rub.*, T, Uc, July, Aug.  
*Echinomyia fera* L. in A, H, S, T, on *Rub.*, Oak, visiting fl. of *Calluna vulgaris* Hull and *Caucalis anthriscus* Huds., May, June, Aug., Sept.  
*Epicampocera conspersa* Mg. on Sycamore, W, May (det. C.J.W.).  
*Eriothrix rufomaculata* Deg. visiting fl. of *Cnicus arvensis* Hoffm., Ka, July, Aug.  
*Ernestia radicum* F. visiting fl. of *Caucalis anthriscus* Huds. A, Rb, X, Aug. : *nielsenii* Villen. on Oak, A, May.  
*Gymnochaeta viridis* Fln. generally on Oak trunks but also on Sycamore and Laurel leaves, M, Rb, S, T, V, W, Apl., May.  
*Lucilia caesar* L. on *Pt.* and leaves of trees, visiting fl. of *Heracleum sphondylium* L. and *Caucalis anthriscus* Huds., H, Nb, S, T, Ub, W, X, May to Aug.  
*Lydella nigripes* Fln. on *Pt.*, C, June (det. C.J.W.).  
*Lypha dubia* Fln. on Beech, Sycamore, T, V, W, May (det. C.J.W.).  
*Melinda anthracina* Mg. on Nettles, W, May.  
*Metopia leucocephala* Rossi on *Pt.* and *Rub.* in A, D, May, July.  
*Monochaeta albicans* Fln. on Sycamore, W, May (det. C.J.W.).  
*Morinia nana* Mg. on Nettles and Umbellifer in A, Rb, June.  
*Phorocera assimilis* Fln. on *Pt.*, T, June : *caesifrons* Macq. on Beech and Sycamore, M, Ub, V, May (det. C.J.W., both species).  
*Pollenia rudis* F. on bare sand, dead leaves, low plants and tree leaves in A, D, H, P, Ra, Ub, V, W, in March to May, July, Sept. Prey of *Mellinus arvensis* L. (Hym.).  
*Ptychomyia selecta* Mg. on Birch in B, June (det. C.J.W.).  
*Ptychoneura rufitarsis* Mg. on Birch, B, June (det. C.J.W.).  
*Sarcophaga agnata* Rond. on grass verge, Kb, Sept. : *clathrata* Mg., T, June : *vicina* Vill. on *Pt.*, Hazel, grass verge, A, Kb, T, June, Sept.  
*Sphecapata conica* Fln. on bare sand, D, July.  
*Thelaira nigripes* F. on *Pt.*, Ua, July.  
*Trixa oestroidea* R. D. on leaves of *Ranunculus repens* L. in Nb, June.

## MUSCIDAE.

- Larvae are mostly coprophagous. Many are plant eaters including pests of the vegetable garden. Some are predaceous. This family includes the house flies. Many adults are flower visitors and a few are predaceous.
- Allaeostylus diaphana* Wied. on Beech and Oak leaves and trunk in D, T in June and Nov.  
*Chirosia albitarsis* Zett. almost confined to *Pt.* but also taken on leaves of Beech and Rowan in A, B, C, E, X, in May to July.  
*Coenosia tigrina* F. at pool in P in June.  
*Cryptolucilia caesarion* Mg. in D, Ka, T, on Stinkhorn fungus, *Phallus impudicus* Pers. in Feb., Sept., and Nov. Prey of *Mellinus arvensis* L. (Hym.).  
*Dasyphora cyanella* Mg. on leaves of trees and shrubs, *Pt.*, and visiting fl. of *Salix caprea* L. in A, E, H, L, P, Rb, U, W, X, in March to May, July, Aug.  
*Egeria discreta* Mg. on *Rub.*, Ua, X, April (det. H. W. Andrews) : *grava* Mg. on *Rub.*, Ua, April (det. H.W.A.).  
*Egle muscaria* F. visiting Sallow bloom, *Salix caprea* L. and *S. cinerea* L. in La, P, W, in March.  
*Fannia canicularis* L. on *Pt.*, Kb, Sept. : *hamata* Macq. hovering under Oaks in X, June : *similis* Stein on *Pt.* in H, July : *sociella* Zett. on Oak, A, May.  
*Graphomyia maculata* Scop. visiting fl. of *Heracleum sphondylium* L. in Kb, Sept.  
*Hebecnema umbratica* Mg. on *Pt.*, July.  
*Helina depuncta* Fln. on *Pt.* in H, Kb, July : *duplicata* Mg. in Ub, May : *duplicata* Stein on Nettle Rb, April : *lucorum* Fln. on Bramble and Gorse in D, Nb, P, in March and May.  
*Hoplogaster mollicula* Fln. on *Pt.* in E, Kb, Na, Uc, X, in July.  
*Hydrophoria conica* Wied. on *Rub.*, Kb, June.

- Hydrotaea armipes* Fln. on Nettle, Rb, April : *dentipes* F. on *Pt.*, Birch, Beech in A, B, Na, Rb, T, Ub, in April, May, July : *irritans* Fln. besides buzzing round man, on *Pt.*, *Rub.*, and Birch in most areas in June and July.
- Hylemyia strigosa* F. on *Pt.* and Oak trunk in D, T, X, in June, July, and Nov.
- Mesembrina meridiana* L. on Oak, D, Nov.
- Myiospila meditabunda* F. on Beech, T, May.
- Morellia aenescens* R. D. visiting fl. of *Caucalis anthriscus* Huds. in S, July : *hortorum* Fln. on *Pt.*, Blackthorn and *Rub.* and visiting fl. of *Heracleum sphondylium* L. in C, F, W, X, June, July : *simplex* Lw. on *Pt.*, Ka, Sept.
- Musca corvina* F. abundant and generally distributed, fond of resting on clothes, March to Sept.
- Muscina pabulorum* F. visiting Sallow bloom, *Salix caprea* L. and on *Pt.*, F, La, T, in March and June.
- Mydaea urbana* Mg. on Beech and visiting fl. of *Ranunculus repens* L. in Ea, Kb, T, June.
- Nudaria dissecta* Mg. on Sycamore, W, May (det. H.W.A.).
- Ophyra leucostoma* Wied. hovering under Oak, W, June.
- Paregle radicum* L. on dung and *Rub.*, Rb, Ua, April, *Pt.* in July.
- Pegomyia bicolor* Wied. on Beech and Sycamore in M, Ub, May : *nigritarsis* Zett. in P, May : ? *rufipes* Fln. on Sycamore in W, May.
- Pegomyza virginea* Mg. in T, July.
- Phaonia basalis* Zett. on *Pt.*, *Rub.*, visiting fl. of *Caucalis anthriscus* Huds. in H, Kb, W, June to Aug. : *erratica* Fln. in Y, Sept. : *incana* Wied. visiting fl. of *Ranunculus repens* L. in Rb, June : *pallida* F. on *Pt.*, *Rub.*, Nettle in A, C, H, T, Ub, in July, Aug. : *scutellaris* Fln. on Beech in Ub, May : *varigata* Mg. on *Pt.*, various trees and shrubs, on Stinkhorn fungus in A, C, E, F, Na, P, T, X, in March, May, June, Aug., Nov.
- Polietes albolineata* Fln. on Birch and Oak in A, on *Pt.* in Q, T, May, June, Aug. : *lardaria* F. on various trees and shrubs, *Pt.*, and visiting fl. of *Heracleum sphondylium* L. in A, C, D, E, H, Rb, T, June, July, Sept. to Nov.
- Pycnoglossa flavipennis* Fln. abundant on *Pt.* wherever it grew closely and fairly tall in June and July.
- Pyrellia serena* Mg. on Blackthorn in W in June.
- I have not studied this family to any extent and many specimens await determination.

## CORDYLURIDAE.

Larvae are phytophagous or coprophagous. Certain adults are predaceous.

- Amaurosoma fasciata* Mg. in long grass, C, Zb, May.
- Norellia spinimana* Fln. on *Pt.* and Docks in A, Uc, in July, Aug.
- Scatophaga lutaria* F. on *Pt.*, *Rub.*, Nettle in A, H, Rb, June, Oct. : *maculipes* Zett. on *Rub.*, Gorse in H, K, at pool in P, May : *stercoraria* L., Common Dung Fly, generally distributed, visiting fl. of *Taraxacum vulgare* Schrank, March to Sept. : *suilla* F. on *Pt.* in La, June.

## DRYOMYZIDAE.

Larvae breed in rotting vegetable matter.

- Dryomyza flaveola* F. visiting fl. of *Anthriscus sylvestris* Hoffm., La, May : var. *zawadskii* Schum. on *Calluna* and Stinkhorn fungus, *Phallus impudicus* Pers. in A, T, in Nov.
- Neuroctena anilis* Rond. on fresh dog dung, Ra, T, July, Oct.

## NEOTTIOPHILIDAE.

- Neottiophilum praeustum* Mg. on Dock in H, June and bred from old Blackbird's nest in Zb.

## ORTALIDAE.

- Herina afflicta* Mg. on *Pt.*, July.

## TRYPETIDAE.

Larvae phytophagous, mostly gall or mine makers. Certain adults over-winter.  
*Chaetorellia jaceae* R. D. ♀ on Knapweed head, *Centaurea nigra* L., Na, July.  
*Chaetostomella onotrophes* Lw. on long grass and Nettle, E, Rb, May, June.  
*Euribia jaceana* Hering bred from gall in Knapweed head, E, Kb, Ub, and taken on Knapweed, Na, in July.  
*Myolia caesio* Harris on Pt., E, July.  
*Phagocarpus permundus* Harris on Pt., C, on Hawthorn, X, Aug.  
*Philophylla heraclei* L., form *onopordinis* F., on Pt., A, June.  
*Tephritis conjuncta* Lw. on Heather, Ling, Pt., Gorse in most areas in Jan., March, to May, July to Sept. and Nov.: *vespertina* Lw. on Pt., *Calluna*, Gorse, in most areas in March to May, July, Sept., Nov. and Dec.  
*Xyphosia miliaria* Schrk. on *Cnicus arvensis* Hoffm., G, Ka, b, Uc, and visiting fl. of *Heracleum sphondylium* L. in Ra in July.

## LONCHAEIDAE.

Larvae breed in living and rotting plants.

*Lonchae chorea* F. on leaves of Bramble, Lime, Oak, C, M, and visiting fl. of *Ranunculus repens* L. in Apl. and May: *deutschii* Zett. (det. J.E.C.) on Birch, Lime, B, X, May: *flavidipennis* Zett. (det. J.E.C.) on Rowan, M, June: species probably undescribed in Colln. J.E.C., on Birch in A, 7.v.39.  
*Palloptera arcuata* Fln. swept in Kb, June.

## LAUXANIIDAE.

Larvae breed in living or rotting plants.

*Aulogastromyia anisodactyla* Lw. [= *Sapromyza fuscicornis* Macq.] on Birch, Oak, Pt., in A, C, Ea, Kb, June, July.  
*Halidayella aenea* Fln. on Pt., X, July: *simillima* Collin on Pt., Rub., A, X, June, July.  
*Homoneura interstincta* Fln. (det. by and in Colln. J.E.C.), on Beech, Ea, June.  
*Lauxania cylindricornis* F. on fl. of Broom, *Cytisus scoparius* Link, D, June.  
*Meiosimyza platycephala* Lw. [= *difformis* Lw.] on Beech, Oak, Ea, T, May, June.  
*Minettia fasciata* Fln. on Pt., grass, Ling, A, Nb, Rb, and sucking honeydew on Sycamore leaves in Zb, July: *longipennis* F. on Rub., Rowan, A. M. Za, May, June: *lupulina* F. on Pt., Broom, grass, Oak, in A, D, F, Rb, S, Ub, X, June to Aug.  
*Peplomyza litura* Mg. on Pt., grass, foliage of umbellifers in A, F, Kb, P, Uc, X, and on mud patch of path in T, June to Sept.  
*Prorhaphochaeta inusta* Mg. on Pt., Rub., A, Kb, T, June, July.  
*Sapromyza decempunctata* Fln. under trees in Kb, June: *hyalinata* Mg. on floor of Oakwood, on Pt., Q, T, June: *illota* Lw. on Pt., H, Ub, May, July: *pallidiventris* Fln. on grass and Oak in Na, S, T, June, Aug.: *rorida* Fln. on Pt., Rub., grass, Hogweed, in most areas, June to Oct.: *sordida* Hal. [= *decipiens* Lw.] on grass, Lime, S, X, Aug.  
*Tricholauxania praeusta* Fln. on Pt., Rub., Lime, long grass and Nettle in A, C, F, H, S, T, X, Zb, May to Sept.

## MICROPEZIDAE.

*Calobata cibaria* L. on Rub., H, June.

## PSILIDAE.

Larvae breed in living plants.

*Psila fimentaria* L. on Rub., Pt., Nettle, etc., under trees in A, Kb, Uc, X in June, July: *rosae* F. on Rub., A, July.

## SEPSIDAE.

Larvae breed in rotting vegetable matter.

*Nemapoda cylindrica* F. on Pt., Rub., Hazel, Holly, A, C, H, Kb, Na, Q, X, May, June.

*Sepsis cynipsea* L. under Gorse and Ling in March, May, July: *fulgens* Hgg. on *Pt.*, and Ling in March, July, Nov.: *orthocnemis* Frey on *Juncus* in P. in May. Females of this genus have been taken in every month of the year and in almost every area. I feel sure that more than three species are present.

#### PIOPHILIDAE.

Larvae are found on decomposing animals.

*Piophilus varipes* Mg. on Birch, B, June (det. J.E.C.).

#### SCIOMYZIDAE.

Larvae parasitic on mollusca, some live in rotting vegetable matter, generally found in wet places.

*Ctonulus distinctus* Mg. on *Juncus*, P, May (det. J.E.C.).

*Ditaenia cinerella* Fln. in long grass, E, May (det. J.E.C.).

*Elgiva albiseta* Scop. at pool, P, June, July, Oct.: *dorsalis* F. on *Calluna* in A, Ka, La, Nb, in Jan., March.

*Limnia unguicornis* Scop. on *Rub.*, Kb, June.

*Pherbina punctata* Scop. on *Pt.*, H, July.

*Tetanocera elata* F. on grass, Rb, and at pool, F, July.

#### OPOMYZIDAE.

Larvae internal plant feeders forming mines.

*Geomyza combinata* L. on *Rub.*, F, July: *tripunctata* Fln. on *Pt.*, A, June, Aug.

*Opomyza florum* F. swept, A, Aug.: *germinationis* L. on *Pt.*, grass, Nettle, at damp mud, F, G, H, Kb, T, W, X, June, July.

#### HELOMYZIDAE.

Larvae are coprophagous, mycetophilous, or saprophagous.

*Allophyla atricornis* Mg. on *Pt.*, fungus, H, T, June, Nov.

*Leria serrata* L. on *Calluna* and Gorse, D, Ka, Dec.

*Suillia notata* Mg. on *Pt.*, on Stinkhorn fungus, *Phallus impudicus* Pers., Q, T, June, July, Nov.: *variegata* Lw. on *Pt.*, *Rub.*, *Erica*, A, Kb, P, in May to July, Nov.

#### CLUSIIDAE.

Larvae live in rotting wood.

*Clusia flava* Mg. on dead Oak stump, T, Aug. (det. J.E.C.).

#### ANTHOMYZIDAE.

Larvae are saprophagous or phytophagous.

*Paranthomyza nitida* Mg. swept in A, Aug. (det. J.E.C.).

#### CHAMAEMYIIDAE.

Larvae occur in plant galls and are carnivorous.

*Chamaemyia polystigma* Mg. on Nettle, Rb, Oct.

#### DROSOPHILIDAE.

Larvae live in rotting vegetable matter.

*Camilla glabra* Fln. on Lime, X, Aug. (det. J.E.C.).

*Diastata fulvifrons* Hal. [= *fuscata* Fln.] on damp mud, T, on Stinkhorn fungus, *Phallus impudicus* Pers., A, F, T, in June, Aug., Nov.: *inornata* Mg. swept, A, Aug.

*Drosophila fenestrarum* Fln. swept, A, Aug.

*Scaptomyza flava* Fln. on Gorse, Ea, F, Nb, P in May, June: *graminum* Fln. [= *disticha* Duda] on and under dead Bracken, A, B, H, July, Aug., Nov.

## ASTEIIDAE.

*Asteia amoena* Mg. swept, A, off Gorse, D, Apl. and Aug.

## EPHYDRIDAE

Larvae are terrestrial, aquatic, carnivorous, saprophagous or leaf-miners.

*Hyadina guttata* Fln., T, July.

*Hydrellia griseola* Fln. on Nettle, F, P, Uc, April to June: *incana* [= *modesta* Lw.] swept, A, Kb, La, visiting fl. of *Ranunculus repens* L., Uc, at pool, P, X, May to Aug.: *thoracica* Stenh. at pool, P, June (det. J.E.C.).

*Napaea coarctata* Fln. at pool, P, at mud patch, T, June, July, Oct.: *littoralis* Mg. at mud patch, T, July to Aug.: *quadripunctata* Mg. at pool, P, June.

*Notiphila cinerea* Fln. at pool, P, June, July.

*Psilopa nitidula* Fln. off Gorse, D, Nb, P, April, May.

*Scatella stagnalis* Fln. at pool, W, June.

*Stictoscatella quadrata* Fln. in cop. in heap of rotting grass mowings, Uc, March.

## CYPSELIDAE.

Larvae breed in animal dung and rotting vegetable matter.

*Cypselia equina* Fln. on horse and rabbit dung, A, E, Uc, W, Jan. March, Apl., June: *hirtipes* R. D. on horse dung, visiting fl. of *Heracleum sphondylium* L. in E, Ka, Apl., July: *nigra* Mg. off wood floor, T, May: *nitida* Mg. on horse dung, on wood floor, F, S, T, in May, June, Nov.: *roserii* Rond. on fresh dog dung, on fungus, H, Na, T, in Feb., March, Nov.: *similis* Collin on horse dung, fresh dog dung, Sycamore trunk, E, G, H, La, Na, P, S, T, Uc, in Jan. to May, July, Nov.: *stercoraria* Mg. at pool, P, June: *suillorum* Hal. on fungus, long grass, wood floor, A, C, H, T, May, June, Nov.

*Leptocera crassimana* Hal. in A, F, in Aug. and Nov.: *silvatica* Mg. on damp dead leaves, on damp tree stump, A, F, Ka, Q, T, X, in Jan., Feb., June, Nov.: *scutellaris* Hal. on horse dung in E in Apl.

*Sphaerocera pusilla* Fln. on horse dung, E, Apl.: *subsultans* L. on horse dung, under *Calluna*, E, Nb, March, Apl.

## CHLOROPIDAE.

Larvae are mostly leaf-miners, some are gall makers, a few are parasitic on eggs of Arachnida.

*Chlorops hypostigma* Mg. off *Juncus*, P, June.

*Chloropisca circumdata* Mg. [= *minuta* Lw.] visiting Sallow bloom, *Salix caprea* L. and *S. cinerea* L., in P, W, March.

*Conioscinella frontellum* Fln. on Broom, D, June (det. J.E.C.).

*Elachiptera cornuta* Fln. swept A, on Gorse, D, April, Aug.

*Oscinella maura* Fln. (det. R.L.C.) swept, A: *frit* L. var. *nitidissimus* Mg. (det. R.L.C.) swept, A, Aug.

## AGROMYZIDAE.

Larvae are internal plant feeders mostly making mines.

*Cerodonta biseta* Hend. in long grass, Na, June (det. J.E.C.).

*Dizygomyza capitata* Ztt. on pool veg., P, June: *luctuosa* Mg. [= *grossicornis* Ztt.] on Gorse, P, May (det. J.E.C.).

*Domomyza cinerascens* Macq. in long grass, C, May (det. J.E.C.).

*Phytomyza ilicis* Curt. bred from mines in Holly leaves occurring wherever Holly occurred all over the Common: *ranunculi* Schrank (including var. *flava* Fln. and *praecox* Mg.) on *Pt.*, Holly, and Nettle in A, F, Na, Rb, X, in April, June, July.



## BIBLIOGRAPHY OF LIMPSFIELD COMMON DIPTERA.

- PARMENTER, L. 1937. "The Swarming of *Beris morrisii* Dale (Dipt. Stratiomyidae)," *Entomologist*, 52 : 212-213.
- 1938. "The Survey of Limpsfield Common. Diptera," *Lond. Nat.*, 1937 : 61-64.
- 1939. "*Platychirus tarsalis* Schum. [Dipt.] in Surrey," *Ent. Record*, 51 : 128.
- 1940. "Notes on Two Species of Dolichopodidae [Diptera]," *Lond. Nat.*, 1939 : 22-23.
- 1941. "Field Notes on Diptera," *Lond. Nat.*, 1940 : 13-14.
- 1941. "Further Records of Predacious Flies and their Prey," *Ent. Mon. Mag.*, 77 : 154-5.
- 1941. "Lauxaniidae = Sapromyzidae [Dipt.] taken in Surrey," *Ent. Record*, 53 : 77-79.
- PARMENTER, L., and OLDROYD, H. "Asilidae ("Robber-Flies") in Surrey," *Lond. Nat.*, 1939 : 20-22.

---

## The Bryophyta of Limpsfield Common.

By J. H. G. PETERKEN.

The following notes on the habitat and frequency of the Limpsfield Common Mosses and Liverworts have been compiled from observations made by Messrs C. P. Castell and J. Ross in 1937 and 1938 and by the writer from 1939 onwards. I am indebted to both these gentlemen for valuable information and to Mr W. R. Sherrin for kind assistance in the identification of various specimens.

The total number of species recorded its fifty-six mosses and eight liverworts.

There are no large areas on the common where any particular species can be said to be dominant but local dominance over very small areas is achieved by *Eurhynchium praelongum* in the woods and under scrub and by *Mnium hornum*, *Dicranella heteromalla* and *Plagiothecium denticulatum* in varying degrees on shady banks.

In many habitats the species are intermixed and in others, especially where different habitats adjoin, they show a tendency to adopt a definite sequence. For instance, at the foot of trees, a common sequence is *Mnium hornum* or *Eurhynchium praelongum* on the bare ground, meeting, on the roots, *Hypnum cupressiforme* or *Dicranella heteromalla* or both. The latter spread a foot or more up the bole of the tree, where they frequently meet *Dicranoweisia cirrata*.

Where woodland meets open heath a gradual change is often noticeable from *Polytrichum* spp., *Hypnum Schreberi* and *Brachythecium purum* to the more shade-loving *Catharinea undulata* and *Eurhynchium praelongum*.

The various habitats and the mosses and liverworts contained therein are as set out below, together with a note of the chief areas from which the records were obtained. (See map in *Lond. Nat.*, 1936.)

## 1. HEATHLAND.

(A) UNDER HEATHER AND DWARF GORSE WITH SOMETIMES BRACKEN  
(Areas A, Rb, S, Ua, Ub.)

*Hypnum Schreberi* (c), *H. cupressiforme* (c), *Dicranum scoparium* (c), *Hylocomium squarrosum* (c), *Polytrichum juniperinum* (c), *Brachythecium purum* (lc), *B. albicans* (o), *Bryum erythrocarpum* (o), *Campylopus pyriformis* (r) with *Dicranoweisia cirrata* (o) on the burnt stems of the Heather. Where the ground has been burned in heath fires there are *Funaria hygrometrica* (c), *Ceratodon purpureus* (c), *Bryum argenteum* (o), and *Polytrichum piliferum* (o).

## (B) IN GRASS MIXED WITH CUT AND DAMAGED BRACKEN. (A, B, H, Kb.)

*Polytrichum juniperinum* (l ab), *P. piliferum* (c), *Dicranum scoparium* (c), *Ceratodon purpureus* (c), *Hypnum Schreberi* (c), *H. cupressiforme* (c) and its var *ericetorum* (o), *Eurhynchium praelongum* (o), *Campylopus pyriformis* (o), *Webera nutans* (o), *Dicranella heteromalla* (o), and *Dicranum Bonjeani* (r).

(C) ON ANT HILLS WITH SHORT GRASS AND SMALL HEATH PLANTS.  
(Kb, Nb, Q, Wa.)

*Hypnum Schreberi* (c), *Dicranum scoparium* (c), *Ceratodon purpureus* (c), *Hylocomium squarrosum* (o), *Brachythecium rutabulum* (o), *Dicranella heteromalla* (r), and *Bryum caespiticium* (r).

(D) THE EDGES AND SIDES OF DISUSED SAND PITS WITH SPARSE  
VEGETATION. (Ub, Wa.)

*Ceratodon purpureus* (c), *Dicranella heteromalla* (c), *Dicranum scoparium* (lc), *Polytrichum juniperinum* (lc), *P. namum* (o), *P. piliferum* (o), and *P. formosum* (o).

## (E) IN RABBIT HOLES. (Area C.)

*Dicranella heteromalla* (vc), *Campylopus pyriformis* (o), *Polytrichum piliferum* (o), and *Hypnum cupressiforme* (o).

## 2. GRASSLAND.

(A) IN OR AMONG SHORT TURF OF GOLF COURSE AND PLAYING FIELDS.  
(Rb, V.)

*Brachythecium albicans* (c), *Hylocomium squarrosum* (c), *Ceratodon purpureus* (c), *Polytrichum juniperinum* (c), *Brachythecium purum* (lc), *Hypnum cupressiforme* (o), *Bryum atropurpureum* (o), *B. caespiticium* (o), and *Brachythecium glareosum* (vr).

## (B) AMONG GRASS IN DAMP HOLLOWS. (A, P, S, Wa, Y.)

*Hylocomium squarrosum* (c), *Brachythecium purum* (c), *B. albicans* (c), *Ceratodon purpureus* (c), *Hypnum Schreberi* (c), *H. cupressiforme* (c), *Dicranum scoparium* (o), *Polytrichum piliferum* (o), *P. juniperum* (o), *Webera nutans* (o), *Fissidens bryoides* (o), *Eurhynchium praelongum* (o), *Polytrichum formosum* (r), *Campylopus flexuosus* (r), *Hypnum cuspidatum* (r), and *Bryum erythrocarpum* (r).

## 3. SCRUB.

## ON THE GROUND UNDER HAWTHORN AND GORSE. (A, Rb, W.)

*Eurhynchium praelongum* (ld), *Catharinea undulata* (vc), *Brachythecium rutabulum* (vc), *Polytrichum formosum* (o), *Dicranella heteromalla* (o), *Hypnum cupressiforme* (o), *H. cuspidatum* (r), *Plagiothecium denticulatum* (r) and the liverwort *Lophocolea heterophylla* (o). *Aulacomnium androgynum* is found occasionally on old gorse boughs.

## 4. WOODLAND.

## (A) ON LEVEL GROUND. (C, G, H, T, X.)

*Mnium hornum* (ld), *Eurhynchium praelongum* (vc), *Catharina undulata* (vc), *Brachythecium rutabulum* (vc), *Plagiothecium elegans* (c), *P. denticulatum* (c), *P. sylvaticum* (o), *Fissidens taxifolius* (o), *Dicranum scoparium* (o), *Amblystegium Juratzkanum* (r), *Mnium affine* (r), *Tortula Vahlana* (vr), and the liverworts *Gymnocolea inflata* (r) and *Aneura multifida* (vr).

## (B) AT THE FOOT OF TREES, SPREADING ON TO THE ROOTS. (C, H, T, X, W.)

*Dicranella heteromalla* (vc), *Hypnum cupressiforme* (vc), *Mnium hornum* (vc), *Eurhynchium praelongum* (c), *Plagiothecium elegans* (c), *P. denticulatum* (l, c), *Ceratodon purpureus* (lc), *Bryum atropurpureum* (o), *Barbula unguiculata* (r), *Thuidium tamariscinum* (vr), and the liverworts *Lophocolea heterophylla* (c), and *L. bidentata* (o).

## (C) ON THE BOLE OF LIVING TREES. (A, H, T, W.)

*Dicranoweisia cirrata* (c), *Brachythecium velutinum* (c), *Hypnum cupressiforme* var. *resupinatum* (o), *Camptothecium sericeum* (r) and the liverwort *Frullania dilatata* (r). No preference was observed among the mosses for any particular species of tree. The base of most trees with spreading roots was well covered.

## (D) ON STUMPS AND FALLEN LOGS. (Rb, Uc, T, W.)

*Hypnum cupressiforme* (vc), *Eurhynchium praelongum* (vc), *Brachythecium rutabulum* (vc), *B. velutinum* (o), *Ceratodon purpureus* (o), *Aulacomnium androgynum* (o), *Dicranella heteromalla* (o), *Eurhynchium confertum* (o), *Plagiothecium denticulatum* (o), *Tetraxis pellucida* (vr), *Eurhynchium myosuroides* (vr), and the liverwort *Lophocolea heterophylla* (vc).

## (E) ON SHADY BANKS AND DITCHES. (A, H, Uc, X, W.)

*Mnium hornum* (l ab), *Eurhynchium praelongum* (l ab), *Brachythecium rutabulum* (vc), *Hypnum cupressiforme* (vc), *Dicranella heteromalla* (vc), *Plagiothecium denticulatum* (vc), *P. elegans* (c), *Catharina undulata* (c), *Aulacomnium androgynum* (c), *Webera nutans* (o), *Campylopus pyriformis* (o), *Plagiothecium sylvaticum* (o), and the liverwort *Lophocolea bidentata* (c).

## (F) ON LOOSE BRICKS ON THE GROUND. (H, Rb.)

*Amblystegium serpens*, *Mnium hornum*, *Barbula convoluta*, and *Tortula muralis*.

## 5. SIDES OF ROADS AND PATHS.

## (A) BARE GROUND AND PATH EDGES. (A, B, H, Q, Rb.)

*Ceratodon purpureus* (vc), *Dicranella heteromalla* (lc), *Campylopus pyriformis* (o), *Bryum argenteum* (o), *B. erythrocarpum* (o), *B. caespitium* (o), *Barbula convoluta* (o), *Brachythecium rutabulum* (o), *Mnium hornum* (o), *Webera nutans* (o), *Polytrichum juniperinum* (r), *Pleuroidium subulatum* (r), and *Pottia truncatula* (r).

## (B) NARROW DITCHES AT ROADSIDE. (Ra.)

*Eurhynchium praelongum* (o), *Bryum caespitium* (o), *Barbula convoluta* var. *sardoa* (r), and *Leptobryum pyriforme* (vr).

## (C) ROADSIDE AND OTHER BANKS IN THE OPEN. (C, Ub, Zb.)

*Catharina undulata* (c), *Eurhynchium praelongum* (c), *Dicranum scoparium* (c), *Brachythecium rutabulum* (c), *B. purum* (o), *Plagiothecium elegans* (o), *Pleuroidium subulatum* (o), *Ceratodon purpureus* (o), *Bartramia pomiformis* (r), and the liverwort *Diplophyllum albicans* (o).

## (D) AT THE BASE OF THE ROADBANK. (Rb.)

*Aulacomnium androgynum* (c) and *Fissidens taxifolius* (o).

## 6. WALLS.

There are few walls on the Common and all the species in this habitat must be considered rare except the first named. (Chief area La.)

*Tortula muralis* (o), *Grimmia pulvinata*, *Bryum caespiticium*, *B. capillare*, *Barbula rubella*, *B. convoluta* var. *sardoa*, *Aulacomnium androgynum*, *Campylotheceum sericeum*, and the liverwort *Madotheca platyphylla*.

## 7. FACE OF CLIFF (Area Y).

*Polytrichum aloides* (o), *Dicranella heteromalla* (o).

## 8. PONDS.

## (A) IN THE PONDS. (P, W.)

*Hypnum aduncum* and *Hylocomium squarrosum* (co-dominant in P), *Hypnum riparium* (o).

## (B) ON THE BANKS OF THE PONDS. (X, W.)

*Eurhynchium praelongum* (vc), *Hylocomium squarrosum* (c), *Brachythecium rutabulum* (c), and the liverwort *Lunularia cruciata* (vr).

Abbreviations:—l, local; d, dominant; ab, abundant; vc, very common; c, common; o, occasional; r, rare; vr, very rare.

The names of the species are as given in the Census Catalogues of British Mosses, 2nd edn., and of British Hepatics, 3rd edn., published by the British Bryological Society. It should be noted, however, that some species have been renamed (see B.B.S. report for 1938 (1939), page 117). Those included in this paper which have been renamed are as shown below. In future, the new nomenclature will be adopted.

## OLD NAME.

## NEW NAME.

*Catharinia undulata* Web. & Mohr.

*Atrichum undulatum* (Hedw.) P. Beauv.

*Pleuridium subulatum* Rabenh.

*Pleuridium acuminatum* Lindb.

*Pottia truncatula* Lindb.

*Pottia truncata* (Hedw.) Furnr.

*Barbula rubella* Lindb.

*Barbula recurvirostra* (Hedw.) Dix.  
comb. nov.

*Eurhynchium praelongum* (L.) Hobk.

*Eurhynchium stokesii* (C. M.) B. & S.

## The Bookham Common Survey.

---

**I**N view of the transport and other difficulties associated with war-time conditions, the Society's Survey of Limpsfield Common has been suspended, but, in order to maintain some form of activity in the field among members of the Ecological Section, it has been decided to make a study of the flora and fauna of Bookham Common, Surrey, an area of about 380 acres.

More than half the Common is covered by the typical semi-natural pedunculate oakwood of clay soils; the rest is a wet grassland, with local rush communities and hawthorn and bracken fringing the woodland. There are some fifteen more or less permanent ponds on the Common, with about three acres of water.

It is thought that a study of the fauna and flora of this Common on London Clay should provide an interesting contrast with that of the much drier Lower Greensand common at Limpsfield. A map of the survey area can be obtained from the Secretary of the Ecological Section, price 3d.

C. P. C.

---

## The Chingford Branch Ecological Survey.

---

**T**HE Chingford Branch began in March 1942 a comprehensive ecological survey of the Cuckoo Pits area of Epping Forest. A comparatively small area was chosen in order that the task might be commensurate with the resources of the Branch; but this area of approximately 500 × 200 yards contains a very great variety of vegetable and animal life and gives scope for a great deal of both specialist and general work. The area is mostly woodland, with hornbeam dominant, but there is one open stretch (Pear Tree Plain); this, is however, being reduced in size owing to the encroachment of hawthorn and blackthorn. There are several small stagnant ponds, which are the home of much insect life, and a running brook forms one boundary of the survey area. Already (August 1942) a considerable amount of detailed information has been recorded; the birds and other vertebrates have been carefully studied, no less than 50 species of bird being recorded for the small area, and 80 species for the immediate neighbourhood. The study of the vegetation naturally requires a much greater amount of work, but several vegetation charts of portions of the area have been completed already. It is hoped that by the end of 1943 sufficient work will have been done on this area to justify either an enlargement of the same survey or the commencement of a new one elsewhere. The survey has stimulated a great deal of enthusiasm in the Chingford Branch, and the team spirit shown is to be highly commended.

D. G. T.

## Official Reports for 1941.

---

### Council's Report, 1941.

CONSIDERING the difficulties that beset an organisation like ours in such a period as the present, our position may be described as encouraging. Our numbers now stand at a total of 522 as against the 553 at the beginning of the year, this nett loss of 31 being caused by a secession of 67, less an increase of 36, which addition shows an improvement of 11 on that of last year. The average attendance at Indoor Meetings has been 27.

A great cloud has fallen on the Society this year by the loss of our universal friend, Mr R. W. Robbins, whose sudden death in August brought grief to all our hearts, and has caused an irreparable breach in our ranks. He was one of the Founder Members of the old North London Society in 1892, and from that year to this had not for a single year been out of office in the service of the Society.

*The London Naturalist* for 1940, with its Supplement *The London Bird Report*, were both produced, and although the quantity was more attenuated than before, the quality was as high as ever. The financial position remains stronger than might have been anticipated.

Work in the field has been maintained as vigorously as outside conditions will allow nowadays; the Ecologists have had to cease their Survey at Limpsfield Common, but are arranging to carry out one at Bookham Common instead.

In the meantime all our Recorders would like to receive as many notes as possible, and it is urged that everyone should make some effort to introduce new members to the Society, so that our records may be made more complete, and our strength maintained.

A. B. HORNBLOWER, *Hon. General Secretary.*

---

### Librarian's Report, 1941.

DURING an air raid in May the bookcases suffered some damage from the blast of a bomb which struck the west side of the London School of Hygiene, but, fortunately, the books came to little harm.

There is not much to report with regard to accessions to the Library; it is gratifying to note that in spite of the paper restrictions most societies are still carrying on with the publication of their official journals, although, of course, they are much reduced in size.

There were two further accessions to the exchange list:—The Cotteswold Field Club and the Caradoc and Severn Valley Field Club. The latter Society very kindly sent a set of their two publications—the *Transactions* and the *Report of the Bare Facts* complete from 1910 to



date with few unavoidable omissions, and received in turn a set of the *London Naturalist*.

The only separate work of importance added to the Library this year was the fifth volume of Witherby's "Handbook of British Birds."

The Librarian would like to appeal to members who have lost direct contact with the Society since the war to look over their bookshelves to make sure that they have returned all books borrowed from the Library.

G. H. SPINNEY, *Hon. Librarian*.

---

### **Report of The Director of Sectional Organisation, 1941.**

THE precedent set last year is again followed and a short summary of the activities of our Sections is given, prevailing conditions still not allowing of detained printed reports. Fortunately, we still have with us some active members in most departments and work on a reduced scale continues.

The ECOLOGISTS, whose pre-war activities were partly concentrated on the Limpsfield Common Survey, have, with the permission of the National Trust, launched a Survey of Bookham Common, the easier access of which is one of its attractions; an encouraging start has been made in this very suitable locality. Members of this Section continue to obtain acknowledgment of their work in the *Journal of Animal Ecology*.

The ORNITHOLOGICAL SECTION has been able to carry on the publication of the *London Bird Report* and normal recording activities, to hold a few meetings in the field, and to provide lecturers at our Headquarters.

Although no formal meetings were held by the members of the PLANT GALL SECTION, individual members have done much useful work, adding several new species to the British List and continuing to supply material to the National Collection at South Kensington.

Among the BOTANISTS, little concerted work has been possible but valuable additions to the Society's Herbarium have been made by members and field meetings attended with other Sections. The remaining Sections, ENTOMOLOGY, RAMBLERS, and ARCHAEOLOGY, have been sadly affected by absence of workers and have little to report.

Elsewhere, appropriate reference is made to the grievous loss sustained by the lamented death of Mr R. W. Robbins, who was an active and accomplished worker in most departments. His help will be greatly missed by fellow workers in many Sections of our Society.

S. AUSTIN, *Director of Sectional Organisation*.



## List of Members.

(Corrected up to 22nd September 1942.)

*It is particularly requested that Members will inform the Secretary as soon as possible of any change of address.*

For list of abbreviations, see p. 52.

### Honorary President:

PROF. SIR FREDERICK GOWLAND HOPKINS, O.M., M.A., M.D., F.R.C.P., F.R.S.

### Honorary Vice-Presidents:

SIR LAWRENCE CHUBB. E. A. COCKAYNE, M.A., D.M., F.R.C.P., F.R.E.S. PROF. M. GREENWOOD, D.Sc., F.R.S., F.R.C.P. A. HOLTE MACPHERSON, B.C.L., M.A., F.Z.S. L. B. PROUT, F.R.E.S. J. ROSS.

### Honorary Members:

- 1916 Brown, A., F.Z.S., 64 Sancroft Road, Eastbourne, Sussex. (Arch., Geol., Orn., R.)  
 1933 Bryce, E. J., Nelson Road, Killara, Sydney, N.S.W. (Zoo.)  
 1927 Le Souef, A. S., C.M.Z.S., R.A.O.U., Taronga Zoological Park Trust, Sydney, N.S.W.

### Members:

- 1928 Alexander, O. A., c/o 35 Ellington Road, Hounslow, Middlesex. (Ent.)  
 1939 \*Allen, Miss D., address not known.  
 1932 Angell, Miss K. W., Stockwell College, Watcombe Park, St Marychurch, Torquay, S. Devon. (Bot., Ecol., Ent., Orn., Pl. G., R.)  
 1932 Arbon, Mrs J. A., Brookside, Eversley Park Road, N.21. (Arch.)  
 1939 Ashby, C. B., 20 Denmark Road, Carshalton, Surrey. (Orn.)  
 1892 Austin, S., F.Z.S., 43 Darenth Road, N.16. (Orn., Arch., R., Ecol., Bot.)  
 1931 Back, Dr Marjorie, 10 Great George Street, S.W.1. (Bot., Orn.)  
 1929 Baggallay, Miss J., 55 Ridgway Place, S.W.19. (Orn.)  
 1929 \*Bagnall, R. S., D.Sc., F.R.S.E., 52 Sandhill, Newcastle-on-Tyne. (Pl. G., Ent., Bot.)  
 1927 Baily, Miss A. R., F.Z.S., Cressex Lodge, Binfield, Berks. (Arch., Bot., Ent., Orn., Pl. G., R.)  
 1924 \*Baker, E. C. Stuart, J.P., O.B.E., F.Z.S., F.L.S., M.B.O.U., H.F.A.O.U., 6 Harold Road, S.E.19. (Orn.)  
 1941 Ballingal, N. C., 120 Cranmer Court, S.W.3. (Orn.)  
 1934 Banks, H., 172 Cromwell Road, Hounslow, Middlesex. (Bot., Orn.)  
 1926 Barnes, Mrs E. C., M.B.O.U., Hungerdown, Seagry, Wilts. (Orn., Bot., Ecol.)  
 1937 Barnett, R. L., 30 Hans Road, S.W.3. (Bot., Orn.)  
 1941 Barrington, F. J. F., 48 Wimpole Street, W.1. (Orn.)  
 1941 Bartlett, T. L., B.A., 91 Woodend Avenue, South Harrow, Middlesex. (Orn.)  
 1933 Bastian, Miss S., 83 Gower Street, W.C.1.  
 1903 \*Battley, Mrs, 1 Sydney Road, Guildford, Surrey.  
 1932 Bayliss, C. V., 27 Colwyn Avenue, Blackpool. (Arch.)  
 1915 Bayne, C. S., Savage Club, 69 Brook Street, W.1. (Orn., Ecol.)  
 1936 Beckwith, Major W. M., D.S.O., 59 Albert Hall Mansions, S.W.7. (Orn.)  
 1929 \*Benson, R. B., M.A., F.R.E.S., British Museum (Natural History), S.W.7. (Bot., Orn., Ent., esp. Sawflies, Ecol., R., Pl. G.)  
 1932 Bentham, C. H., Eothen, Epsom Lane, Tadworth, Surrey. (Orn.)  
 1939 Berry, P., M.D., Hillside, Bessels Green, near Sevenoaks, Kent.  
 1937 Best, Miss M. G., M.R.C.S. (Eng.), L.R.C.P. (Lond.), 115 Widmore Road, Bromley, Kent. (Orn.)  
 1940 Beven, G., Cromer Hyde, Central Road, Morden, Surrey. (Orn.)  
 1935 Birnie, Miss V. M. O., 23 Hillway, N.6. (Orn., R.)

- 1941 Bispham, T., B.Sc., A.I.C., 2 Chestnut Avenue, Wembley, Middlesex. (Orn.)
- 1937 Blackett, Miss F. R. F., 13 Cranley Place, S.W.7. (Orn.)
- 1930 Blair, K. G., D.Sc., F.R.E.S., 11 Durrington Park Road, S.W.20. (Ent.)
- 1939 Blake, E. A., 16 Lindsay Road, Worcester Park, Surrey. (Orn.)
- 1937 Blake, F. W., 16 Lindsay Road, Worcester Park, Surrey. (Orn.)
- 1939 Bolton, J. R. (address not known). (Orn.)
- 1937 Bond, Mrs M. T., 8 Messaline Avenue, W.3. (Orn.)
- 1941 Bourne, K. W., 47 West Way, N.W.10. (Ecol.)
- 1904 Bradley, S. W., 4 Lucton's Avenue, Buckhurst Hill, Essex. (Bot., Ent., Orn.)
- 1932 Braithwaite, Miss D. M., 18 Warren Road, E.4. (Orn.)
- 1910 Braithwaite, Miss N. A., 18 Warren Road, E.4.
- 1933 Brazil, Miss F., Penby, Marshalswick Lane, St Albans, Herts. (Orn.)
- 1940 Breckin, Mrs E. M., Hayling, Cedars Avenue, Mitcham, Surrey. (Arch., Ecol., Mycol.)
- 1930 Brend, W. A., M.A., M.D., B.Sc., 14 Bolingbroke Grove, S.W.11. (Arch., Orn.)
- 1937 Brightwell, L. R., F.Z.S., White Cottage, Chalk Lane, East Horsley, Surrey. (Marine Life.)
- 1933 Bromley, Miss B., 12a Eton Road, N.W.3. (Orn., R.)
- 1937 Brown, Miss B. E., Gresham Cottage, Granville Road, Limpsfield, Surrey. (Ecol., Orn.)
- 1926 Browne, Miss C. H., 11 St Mary's Walk, Harrogate, Yorks. (Arch., Bot., Orn., R.)
- 1940 Browne, Miss E. Gore, 3 Claremont House, Lithos Road, N.W.3. (Orn.)
- 1938 Buck, F. D., 49 Elthorne Road, N.19. (Col., Ecol.)
- 1938 Budden, E. C., address not known. (Orn.)
- 1930 \*Burgham, Miss J. E., 4 Regent Square, W.C.1. (Orn., Geol., R.)
- 1915 Burkill, H. J., M.A., F.R.G.S., 3 Newman's Court, Cornhill, E.C.3. (Pl. G., Lep., Bot., Geol., Orn., R., Ecol.)
- 1935 Butterworth, Miss M. H., The Caravan, Lord Weymouth Grammar School, Warminster, Wilts. (Orn., Bot., Ecol.)
- 1938 Buxton, Miss L. R., Easneye, Ware, Herts. (Orn.)
- 1928 \*Campbell, J. M. H., M.D., 47 Arkwright Road, N.W.3. (Orn.)
- 1912 Capleton, A., Golfers' Club, 2a Whitehall Court, S.W.1. (Mam., Orn., R., Bot., Ecol.)
- 1936 Carrington, L. I., The Grey Cottage, Chipstead, Surrey. (Ecol., Orn.)
- 1933 Carter, J. S., Ph.D., M.Sc., F.I.C., 26 St John's Road, N.W.11. (Orn.)
- 1932 Castell, C. P., B.Sc., 52 Graham Road, S.W.19. (Bot., Geol., Ecol.)
- 1936 Cawkell, E. M., 74 Alfred Road, Clive Vale, Hastings, Sussex. (Orn.)
- 1930 Chandler, S. E., D.Sc. F.L.S., 74 King's Road, Caversham, Reading. (Bot., Ecol.)
- 1931 Chubb, Sir Lawrence, 71 Eccleston Square, S.W.1. (R.)
- 1929 Coates, Miss N. H., Woodhouse, Beaumont Road, S.W.19. (Orn., Bot.)
- 1904 Cockayne, E. A., M.A., D.M., F.R.C.P., F.R.E.S., 16 Westbourne Street, W.2. (Lep., Biol.)
- 1925 Cocksedge, W. C., Hardwick House, Whitechurch, near Reading, Berks. (Arch., Bot., Ecol., Geol., Orn.)
- 1929 Cocksedge, Mrs, Hardwick House, Whitechurch, near Reading, Berks. (Arch., Bot., Ecol., Geol.)
- 1907 Collenette, C. L., F.R.G.S., F.R.E.S., Parwich Hall, near Ashbourne, Derbyshire. (Api., Bot., Ecol., Ent., Orn.)
- 1936 Collett, R. L., 165/20 Abbey Road, N.W.8. (Orn.)
- 1904 Cooke, Rev. P. H., B.A., 22 Barnett Wood Lane, Ashted, Surrey. (Bot., Arch.)
- 1934 Coon, F. A. H., address not known. (Orn.)
- 1938 Cooper, J. M., Fairview, Higher Drive, Purley, Surrey. (Orn.)
- 1939 Coote, F. D., F.R.E.S., 32 Wickham Avenue, Cheam, Surrey. (Lep.)
- 1939 Copithorne, Surgeon Lieut. R. E. C., R.L.V.R., M.R.C.S., L.R.C.P., D.C.H., late of H.M.S. Ark Royal, c/o G.P.O., London.
- 1937 Cornwallis, R. K., Collow Abbey, Wragby, Lincs. (Orn.)
- 1939 Couper, Miss L., 6 St John's Road, N.W.11. (Arch.)
- 1941 Cracknell, A. C., 39 Ravenscourt Gardens, W.6. (Ent.)

- 1942 Cramp, S., 97 Clare Court, W.C.1. (Orn.)
- 1937 Crispin, G. H., Meadowcroft, Abbot's Langley, Herts.
- 1936 Crompton, Miss C. E., Sesame Imperial and Pioneer Club, 49 Grosvenor Street, W.1. (Arch., Orn.)
- 1927 Cross-Rose, F., 20 Woolstone Road, S.E.23. (Orn.)
- 1892 Culpin, M., M.D., F.R.C.S., Fairview, Semaphore Road, Guildford. (Biol.)
- 1928 Cuninghame, Miss D. W. M., Milford Cottage, Milford, Godalming, Surrey. (Bot., Ecol., Ent., Orn., Pl. G.)
- 1930 Cunningham, J., M.B.O.U., Drinagh, Kensington Road, Knocke, Belfast. (Orn.)
- 1936 Currie, P. W. E., c/o 102 Burdon Lane, Belmont, Sutton, Surrey. (Orn., Ecol.)
- 1892 Cyriax, R. C., 23 Aberdare Gardens, N.W.6. (Arch., Aryan question, Indo-European languages.)
- 1936 Daffarn, J. D., 41 Woodside Avenue, N.6. (Orn.)
- 1920 \*Dallas, J. E. S., 4 Herkomer Road, Llandudno, N. Wales. (Orn., Bot., Arch., Ecol., R., Pl. G.)
- 1925 \*Dallas, Mrs Rosa F., 4 Herkomer Road, Llandudno, N. Wales. (Arch., Bot., Geol., Orn., Ecol., R.)
- 1940 Darlington, Miss I., M.A., 39 Craven Avenue, W.5. (Arch., Bot., Orn.)
- 1933 Davies, Miss E. B., Graffham, Petworth, Sussex. (Orn., Ent.)
- 1937 Davis, A., 188 Nether Street, N.3.
- 1926 Deane, Miss M. B. H., Box 36, B.P.O., Tangier, Morocco. (Orn.)
- 1910 Dell, F. G., 55 Russell Road, Buckhurst Hill, Essex. (P. L., Micr., Orn.)
- 1928 Douglas-Smith, Miss K., 19 Thurlow Road, N.W.3. (Arch., Bot., Ecol., Orn.)
- 1939 Dudley, A. J., address not known.
- 1942 Duffin, C. J., 4 Pendennis Road, S.W.16. (Orn.)
- 1934 Eales-White, Major J. C., T.D., F.R.E.S., F.Z.S., Squirrel Wood, Seven Hills Road, Cobham, Surrey (Arch., Ent., Orn.)
- 1938 Eardley-Wilmot, Mrs M., 24 Thurloe Square, S.W.7. (Bot., Orn.)
- 1936 Elcome, G. D., c/o 28 Dulwich Wood Avenue, S.E.19. (Orn.)
- 1936 Elcome, J. W., c/o 28 Dulwich Wood Avenue, S.E.19. (Orn.)
- 1936 Ellington, Miss M. L., 1st London Motor Co., Cam House, Campden Hill, W.8. (Orn.)
- 1936 Ellis, W. G., Wavecrest, Maesgwyn Road, Penrhyn Bay, Llandudno, N. Wales. (Orn.)
- 1939 Elphinstone, K. V., Artillery Mansions, S.W.1. (Orn.)
- 1928 Emberson, L. M., African and Eastern (Near East) Ltd., P.O. Box No. 17, Baghdad, Iraq. (Orn., Ecol.)
- 1927 English, Miss F., 4 Herkomer Road, Llandudno, N. Wales. (Orn., Bot., Arch., R.)
- 1942 Evans, L. R., 35 Champion Grove, S.E.5.
- 1939 Eve, I. S. (address not known). (Orn.)
- 1939 Fairbairn, Miss C. E., 31 Courtfield Gardens, S.W.5. (Orn.)
- 1940 Fairbairn, D. C., M.C., M.B., B.Sc. (Lond.), L.R.C.P., M.R.C.S., Lakeside Hotel, Anisdale, near Liverpool. (Bot.)
- 1939 Faulkner, Miss A. M. G., 127 Lower Richmond Road, S.W.14. (Arch., Orn., R.)
- 1940 Finch, Miss S. A., M.B., B.S., D.T.M. & H., 135 Palmerston Road, N.22. (Arch., Orn., R.)
- 1937 Fisher, J. M. McC., c/o Zoological Society of London, Regent's Park, N.W.8. (Ecol., Orn.)
- 1934 Fitter, R. S. R., F.Z.S., M.B.O.U., 39 South Grove House, N.6. (Orn., Ecol.)
- 1924 Foster, J. B., B.A., 478 West Wycombe Road, High Wycombe, Bucks. (Orn.)
- 1937 Freeman, P., B.Sc., A.R.C.S., F.R.E.S., 8 Sebastian Avenue, Shenfield, Essex. (Ecol., Ent.)
- 1935 French, W. A., Brook Barns, Chigwell, Essex. (Orn., Bot.)
- 1939 Garrett, V. R., 15 The Pryors, East Heath Road, N.W.3. (Orn.)
- 1932 Garrido, A. S., 102 Clonmell Road, N.17. (Bot., Geol., Ecol.)
- 1933 Gaster, H., 8a Lunham Road, S.E.19. (Bot., Orn., R.)
- 1910 Gaze, W. E., 10 The Avenue, Highams Park, E.4. (Bot., Chem., Lep., Orn.)
- 1939 Gibson, Miss A., M.D., The Central Laboratory, Star and Garter Home, Richmond, Surrey. (Orn.)

- 1939 Gibson, Mrs G. M., 26 Gilston Road, S.W.10. (Bot., Orn.)
- 1931 Gillett, J. D., F.R.E.S., P.O. Box 40, Jinja, Uganda. (Ent., Rep.)
- 1942 Glanville, S. R. K., 53 North Road, N.6. (Orn.)
- 1910 Glegg, W. E., F.Z.S., M.B.O.U., The Zoological Museum, Tring, Herts. (Orn.)
- 1934 Godwin, C., 50 Lomond Avenue, Blackpool, Lancs. (Orn.)
- 1934 Godwin, Mrs M. L., 50 Lomond Avenue, Blackpool, Lancs. (Orn.)
- 1941 Godyn, Z., 44 Ladbroke Square, W.11. (Orn.) (Honorary.)
- 1929 Goodfellow, Miss L., Flat 3, 7 Lyndhurst Gardens, N.W.3. (Orn.)
- 1942 Gould, H. G., 35 Bergholt Avenue, Ilford, Essex. (Orn.)
- 1927 Green, R., F.Z.S., Ruskin Studio, 7 New Court, Lincoln's Inn, W.C.2, and 84 Elgin Road, Seven Kings, Essex. (Orn.)
- 1939 Greenfield, Lt. H. F., c/o Beech Bank, Stuart Road, Warlingham, Surrey. (Orn.)
- 1899 \*Greenwood, Prof. M., D.Sc., F.R.S., F.R.C.P., Hillcrest, Church Hill, Lough-ton, Essex. (Arch., Biol.)
- 1920 Grinling, C. H., B.A., 71 Rectory Place, S.E.18. (Bot., Ecol.)
- 1927 Hale, R. W., 6 Grendon Gardens, Wembley Park, Middx. (Ecol., Orn.)
- 1939 Hambly, E. H. T., M.B., B.S., F.R.C.S., Treharrow, Seer Green, Beacons-field, Bucks. (Ent., Orn.)
- 1903 Hanbury, F. Capel, Westfield, Hoddesdon, Herts. (Lep.)
- 1938 Hansford, Mrs D. I. (address not known). (Bot., Ecol.)
- 1897 \*Hanson, P. J., Burcroft, Village Road, Bush Hill Park, Middlesex. (Orn., Arch., R., Ecol.)
- 1921 Hardiman, J. P., C.B.E., B.A., Hyron's Cottage, Woodside Road, Amersham, Bucks. (Orn.)
- 1942 Harris, L. F., 47 High Street, Weybridge, Surrey. (Orn.)
- 1942 Harrison, J. L., A.R.C.S., B.Sc., F.R.E.S., 12 Hexham Gardens, Isleworth, Middx. (Ecol., Ent.)
- 1933 Harrison, Miss E. E., 43 Marlborough Hill, N.W.8. (Orn., R.)
- 1937 Harvie, Miss D. E., The Croft, Maybury Hill, Woking, Surrey. (Bot., Orn., Freshwater Biol., Ecol.)
- 1939 Haviland, Mrs B., Thatchers, Little Gaddesden, Berkhamsted, Herts. (Bot.)
- 1939 Haviland, Miss D. M., Thatchers, Little Gaddesden, Berkhamsted, Herts. (Orn.)
- 1938 Haviland, Miss G. M. B., Thatchers, Little Gaddesden, Berkhamsted, Herts. (Orn.)
- 1927 Hayward, J. F., Ph.D., M.Sc., c/o 29 Mount Echo Drive, E.4. (Geol., Zoo.)
- 1902 Heath, G. H., M.A., 3 Bolney Court, Portsmouth Road, Surbiton. (Lep.)
- 1937 Hett, G. Secombe, F.R.C.S., F.R.G.S., F.Z.S., 86 Brook Street, W.1. (Orn., Mam., Ichth., Ecol.)
- 1940 Hick, C. E. St C., Larkfield, Bracknell, Berks. (Lep.)
- 1938 Highway, Mrs H., 1 North Dene, Beckenham Junction, Kent. (Bot., Orn.)
- 1938 Hindson, M. T., 11 Holland Park, W.11. (Ecol., R.)
- 1937 Höhn, E. O., c/o Belmont, Westfields, Leek, Staffs. (Orn., Ecol.)
- 1932 Homes, Lt. R. C., c/o Park Cottage, Wisborough Green, near Billingshurst, Sussex. (Orn., Ecol.)
- 1930 Hopkins, Lt. G., c/o Westminster Bank Ltd., Green Lane, Northwood, Mdx. (Orn., Ecol.)
- 1919 Horn, P. W., Stepney Borough Museum, 77 Whitechapel High Street, E.1. (Orn., Aqua.)
- 1905 Hornblower, A. B., 91 Queen's Road, Buckhurst Hill, Essex. (Api., Arch., Orn., R., Ecol.)
- 1941 Hoy, K. E., 5 Beverley Crescent, Woodford Green, Essex. (Ent., Orn.)
- 1938 Hurcomb, Sir Cyril, K.B.E., C.B., 12 Campden Hill Court, W.8. (Orn.)
- 1937 Hussey, S. V., 40 Flanchford Road, W.12. (Bot., Orn., R.)
- 1930 Hutton, Miss R. E., Lytton Lodge, Codicote, Hitchin, Herts. (Bot., Zoo.)
- 1927 Jeffery, H. J., A.R.C.S., F.L.S., 14 Coppetts Road, N.10. (Bot.)
- 1933 Johns, Miss L. J., 87 Morley Hill, Enfield, Middx. (Arch., Bot., Orn., R., Ecol.)
- 1931 Johnston, F. J., Church Close, Oakley, Beds. (Orn., Ecol.)
- 1942 Karthauser, B. F., 8a Lawn Road, N.W.3. (Orn.)
- 1899 \*Kaye, W. J., F.R.E.S., Chantrey Lodge, Longdown, Guildford, Surrey. (Lep.)
- 1937 Keen, Mrs E. M., 15 Doughty Street, W.C.1. (Arch.)



- 1938 Keith, Miss C., 17 Abercorn Place, N.W.8. (Arch., Bot., Orn., R.)  
 1942 Kemp, Mrs M. M., 33 Ellerton Road, S.W.18. (Orn.)  
 1934 Kerr, Mrs H. M. Rait-, 22 Elm Tree Road, N.W.8. (Arch., Ecol., Orn.)  
 1936 Keywood, K. P., Croft Cottage, Hare Lane, Claygate, Surrey. (Orn., Ent.)  
 1930 King, Miss C. A., M.D., 8 Lancaster Drive, N.W.3. (Orn., Arch., R.)  
 1941 Kramer, J. A., 8 Muswell Avenue, N.10. (Orn.)  
 1928 Lack, H. L., M.D., F.R.C.S., Great Thorndean Farmhouse, Warninglid, Sussex. (Orn.)  
 1930 Ledlie, R. C. B., M.B., B.Sc., F.R.C.S., 64 Harley Street, W.1. (Bot., Orn.)  
 1922 Lemon, Mrs M. L., M.B.E., J.P., F.R.G.S., F.R.S.A., F.Z.S., M.B.O.U., Hillcrest, Redhill, Surrey. (Orn.)  
 1937 Lewer, F. A., 10 Oakhill Road, S.W.15. (Orn.)  
 1919 Leyton Public Libraries (E. Sydney, F.L.A., Librarian), Central Library, E.10.  
 1927 Lister, Miss G., F.L.S., c/o Sir Wm. Lister, K.C.M.G., Bledlow Ridge, High Wycombe, Bucks. (Orn., Bot.)  
 1926 \*Littlejohn, H. A., 2 Brooklands Gardens, Ilford, Essex. (Orn., Bot., R.)  
 1926 \*Longfield, Miss C. E., F.R.G.S., F.R.E.S., F.Z.S., M.B.O.U., 20 Pont Street, S.W.1. (Orn., Ent., Bot., Ecol., R.)  
 1930 \*Low, G. Carmichael, M.A., M.D., F.R.C.P., F.Z.S., M.B.O.U., 7 Kent House, Kensington Court, W.8. (Orn., Zoo.)  
 1926 Lutwyche, Mrs A. N., 120 Mildred Avenue, Watford, Herts. (Orn., R.)  
 1928 MacAlister, Mrs E., c/o National Provincial Bank, 18 Cromwell Place, S.W.7. (Orn., Bot.)  
 1937 McClintock, D., B.A., address not known. (Bot., Orn.)  
 1935 McCulloch, Lt. G. K., c/o 65 Chester Road, Northwood, Middlesex. (Orn.)  
 1933 MacDonald, Right Honourable Malcolm J., M.P., Upper Froggnal Lodge, N.W.3. (Orn.)  
 1935 McDowell, Miss C. M., 152 Kew Road, Richmond, Surrey. (Bot., Orn., R.)  
 1939 McEwen, Miss E., c/o Westminster Bank Ltd., 74 Westbourne Grove, W.2. (Orn.)  
 1932 McInnes, Miss J., 5 Longton Avenue, S.E.26. (Orn., Bot., Ecol.)  
 1911 MacIntosh, Miss I. S., 3 Mayfield Road, E.4. (Arch., Bot.)  
 1911 MacIntosh, Miss J. D., 3 Mayfield Road, E.4. (Arch., Bot.)  
 1929 Mackay, Helen M. M., M.D., F.R.C.P., Flat 3, 7 Lyndhurst Gardens, N.W.3. (Orn.)  
 1932 Mackworth-Praed, C. W., F.R.G.S., F.Z.S., F.R.E.S., M.B.O.U., Castletop, Burley, near Ringwood, Hants. (Orn., Ent.)  
 1941 McMillan, A., L.R.C.S., L.R.C.P. (Edin.), Ivy House, New Romney, Kent. (Orn.)  
 1923 \*Macpherson, A. Holte, B.C.L., M.A., F.Z.S., 2 Execliff, Trefusis Terrace, Exmouth, Devon. (Orn.)  
 1936 Mann, C. A. (address not known). (Ent., Arch.)  
 1934 Mann, F. R., M.C., Noreena, Ham Common, Surrey. (Orn.)  
 1934 Manser, G. E., c/o 29 Gallows Hill, King's Langley, Herts. (Orn., Bot., Ecol.)  
 1936 Manson-Bahr, Sir P. H., C.M.G., D.S.O., M.A., M.D., F.R.C.P., M.B.O.U., F.Z.S., 149 Harley Street, W.1. (Orn.)  
 1934 \*Marchant, Miss R., 24 Longmeads, Rusthall, Tunbridge Wells, Kent. (Bot., Arch.)  
 1938 Maund, Miss L., 10 Browning House, Wood Lane, W.12. (Orn.)  
 1940 Megaw, T. McE., M.Sc., A.M.I.C.E., Petty's Farm, Ludgershall, Aylesbury, Bucks. (Geol., Orn.)  
 1935 Melliush, W. D., c/o 56 Sunnyfield, N.W.7. (Ecol., Orn.)  
 1938 Michael, R. P., address not known. (Orn., Ecol.)  
 1931 Millburn, Miss F. C., Calderfield, St George's Avenue, Northampton. (Orn.)  
 1926 Mitchell, Miss E. A., 6 The Uplands, Ruislip Manor, Middlesex. (Bot., Orn.)  
 1932 Mitchell, Miss M. I., 7 Penwerris Avenue, Osterley, Middlesex. (Bot., Orn.)  
 1938 Monk, J. F., 5 Gayton Crescent, N.W.3. (Orn.)  
 1939 Moore, Miss E., 25 West Cromwell Road, S.W.5. (Arch., R.)  
 1938 Moss, Miss I. P. (address not known). (Arch.)

- 1937 Mountfort, G. R., M.B.O.U., c/o Vacuum Oil Co., Castor House, Tothill Street, S.W.1. (Orn.)
- 1928 Murphy, Miss H., L.L.A., address not known. (Bot., Orn., Ent., Arch.)
- 1939 Muspratt, D. E., 13 Scarborough Road, E.11.
- 1937 Musselwhite, D. W., 59 Mayford Road, S.W.12. (Orn.)
- 1938 Myers, Lieut. A. F., c/o 43 Arkwright Road, N.W.3. (Orn.)
- 1942 Nevinson, Mrs H. W., 23 Young Street (Flat 2), W.8.
- 1893 \*Nicholson, Miss B., 49 Danecourt Road, Parkstone, Dorset. (Bot.)
- 1934 Nicholson, E. M., M.B.O.U., 13 Upper Cheyne Row, S.W.3. (Orn., Ecol.)
- 1928 Noel, Miss E. F., 37 Burnham Court, W.2. (Bot., Orn., R., Ent., Pl. G.)
- 1934 Norris, C. A., M.B.O.U., Grassholme, Stratford-on-Avon, Warwickshire. (Orn., Ecol.)
- 1940 Norsworthy, H. H., 15 Selwyn House, Manor Fields, S.W.15. (Orn.)
- 1937 O'Farrell, A. F. L., Oaklands, Old Post Office Road, Crawley, Sussex. (Ecol., Ent.)
- 1937 Oldroyd, H., M.A., F.R.E.S., c/o British Museum (Natural History), S.W.7. (Ecol., Ent.)
- 1937 Owen, C. E., 30 Hamilton Road, Harrow, Middlesex. (Orn.)
- 1938 Paddington Public Libraries (H. J. W. Wilson, A.L.A., Librarian), Portchester Road, W.2.
- 1929 Page, Miss M. M., 22 Barnett Wood Lane, Ashted, Surrey. (Orn.)
- 1925 \*Parmenter, L., F.R.E.S., c/o 94 Fairlands Avenue, Thornton Heath, Surrey. (Ecol., Bot., Ent. (esp. Dipt.), Orn., Pl. G.)
- 1938 Parrinder, Mrs E. R., 27 Gwalior House, Chase Road, N.14. (Ecol., Orn., R.)
- 1938 Parrinder, E. R., 27 Gwalior House, Chase Road, N.14. (Ecol., Orn., R.)
- 1921 Parsons, Lt. Cdr. S. T. T., R.N.V.R., c/o Westminster Bank Ltd., 8 Borough High Street, S.E.1. (Orn.)
- 1933 Paulson, C. W. G., M.B.O.U., Woodside Cottage, Wheeler's Lane, Smallfield, Surrey. (Orn.)
- 1923 Payne, E. M., Tilgate, Long Lane, Hillingdon, Middlesex. (Bot., Orn.)
- 1923 Payne, L. G., F.Z.S., 22 Marksbury Avenue, Richmond, Surrey. (Bot., Ecol.)
- 1942 Payne, R. M., 22 Marksbury Avenue, Richmond, Surrey. (Ent.)
- 1935 Pearce, B. S. K., 74 Ashgrove Road, Goodmayes, Essex. (Orn., Bot., Ent.)
- 1937 Pearce, E. W., 3 Berkeley House, Upper Sunbury Road, Hampton, Mdx. (Orn.)
- 1934 Pearson, Miss D. M., B.Sc., St Gabriel's College, 210 Westminster Buildings, High Street, Doncaster, Yorks. (Orn., P. L., Bot., Pl. G.)
- 1932 Pedler, E. G., 119 Richmond Park Road, S.W.14. (Orn., R.)
- 1937 Peterken, J. H. G., 73 Forest Drive East, E.11. (Orn., Bot., Ecol.)
- 1937 Philipson, W. R., 33 Park Avenue, Ruislip, Middlesex. (Orn.)
- 1942 Phillipson, Rev. C. Q., 237 West Green Road, N.15. (Orn.)
- 1937 Piercy, K., Clifton Cottage, Clifton, Beds.
- 1931 Pinniger, E. B., 5 Endlebury Road, E.4. (Ent., Orn.)
- 1927 Piper, Miss G. E. M., 12 Elms Road, S.W.4. (Orn.)
- 1941 Pitt, Miss Frances, The Albynes, Bridgnorth, Salop. (Orn.)
- 1935 Pollard, Mrs H. B., The Limes Cottage, Pilgrims Way, S. Croydon, Surrey. (Orn., Ecol.)
- 1928 Poole, A. C., 42 The Mall, W.5. (Orn., Bot.)
- 1933 Popple, Miss W. N., Castle Rise, Castle Hill Avenue, Berkhamsted, Herts. (Orn., R., P. L., Ecol.)
- 1892 Prout, L. B., F.R.E.S., 36 Hillview Road, Hatch End, Middlesex. (Lep., Biol.)
- 1938 Raincock, C. W., F.Z.S., 9 Bennett Park, S.E.3. (Mam., Ecol.)
- 1939 Rammell, Mrs E. M., 18 Fishpool Street, St Albans, Herts. (Orn.)
- 1926 Rankin, The Hon. Lady, Royal Court Hotel, S.W.1. (Orn.)
- 1939 Ratcliff, A. G., 39 Howard Road, Dorking, Surrey. (Orn.)
- 1934 Ratcliff, P. W., c/o 39 Howard Road, Dorking, Surrey. (Orn., Bot., Ecol.)
- 1938 Rawlence, D. A., Hill Top Cottage, Warboys Road, Kingston Hill, Surrey. (Orn.)
- 1934 \*Ray, Miss T., 24 Longmeads, Rusthall, Tunbridge Wells. (Bot., Arch.)
- 1935 Redpath, K., Orchard Cottage, Jordans, Beaconsfield, Bucks. (Orn.)
- 1929 Reed, Miss J. B., 1 Lymington Court, S.W.19. (Orn.)

- 1929 Rew, Miss M., Glencoinside, Ullswater, Penrith. (Orn.)
- 1925 Richardson, A., 2 Manor Road, Lea Valley, Wheathampstead, Herts. (Orn., Ent.)
- 1940 Richardson, R. A., Birling Corner, Ratton Village, Willingdon, Sussex. (Orn.)
- 1941 Robbins, Rev. R. A., Marshwood Vicarage, Bridport, Dorset.
- 1934 Roberts, J. E., B.Sc., Homewood, Kelsall, Cheshire. (Orn., Ecol.)
- 1940 Robinson, T. R., Flat 10, Linton House, Holland Park Avenue, W.11. (Orn.)
- 1938 Rommel, Miss D., The Orchard House, Bickley, Kent. (Arch., Orn.)
- 1910 \*Ross, J., 23 College Gardens, E.4. (Pl. G.)
- 1935 Rowan, J. D., 65 Haydn Avenue, Purley, Surrey. (Orn.)
- 1931 Rowberry, E. C. (address not known). (Orn., Ecol.)
- 1941 Rutherford, Mrs P., 82 Southgate Road, Potter's Bar, Middlesex. (Orn.)
- 1942 Ryall, R. H. M., 24 Stillcroft Gardens, Wembley, Middlesex. (Orn.)
- 1929 Sampson, E. S., 60 Alexandra Road, Epsom, Surrey. (Orn.)
- 1937 Scott, G. B., c/o 6 Alan Road, S.W.19. (Geol., Orn.)
- 1937 Seth-Smith, D., F.Z.S., M.B.O.U., Brabourne, Poyle Road, Guildford, Surrey. (Orn.)
- 1935 Shill, W. A., Barberries, Greenhurst Lane, Oxted, Surrey. (Bot.)
- 1929 Short, G. R. A., 36 Parkside Drive, Edgware, Middlesex. (Bot., Micr., Pharmacognosy, Ecol.)
- 1938 Sim, A. F. C., Amerden Ponds, Taplow, Bucks. (Orn.)
- 1892 Simes, J. A., O.B.E., F.R.E.S., 75 Queen's Road, Loughton, Essex. (Ent.)
- 1933 Skrimshire, E. H. N., F.R.A.I., F.Z.S., 5 The Old Well House, The Grove, N.6. (Orn., Arch., R.)
- 1935 Smith, Miss A. J., 55 West Avenue, N.3. (Orn.)
- 1892 Smith, C. B., 103 Wood Vale, N.10. (Lep.)
- 1937 Smith, M. A., M.R.C.S., Lane End, Putney Heath Lane, S.W.15. (Rep., Amph.)
- 1927 Solly, Miss B. N., 167 Old Brompton Road, S.W.5. (Orn.)
- 1935 Spinney, G. H., B.A., East Hill Cottage, Copthorne, near Crawley, Sussex. (Bot., Arch., Ecol., R.)
- 1922 Spooner, H., 21 Musgrave Crescent, S.W.6. (Bot., Orn., Arch., R., Ecol.)
- 1936 Springall, R. S., 30 Connaught Avenue, E.4. (Orn.)
- 1920 \*Stowell, H. S., L.R.I.B.A., Pirbright, Torland Road, Hartley, Plymouth. (Arch.)
- 1933 Sulman, J. E., Crofters, Pine Grove, Totteridge, Herts. (Orn.)
- 1930 Swayne, F. G., M.A. (Cantab.), M.B., M.B.O.U., Ivy Hall Hotel, Crowborough, Sussex. (Orn.)
- 1935 Tams, W. H. T., F.R.E.S., British Museum (Natural History), S.W.7. (Ent.)
- 1938 Taylor, Miss M. L., 6 Kent Gardens, W.13. (Bot.)
- 1938 Taylor, Miss M. S., address not known. (Orn.)
- 1920 Thomas, Mrs G. E., 9 Talbot Road, Isleworth, Middlesex. (Orn., R.)
- 1939 Thompson, P., c/o 13 Bearland, Gloucester. (Bot., Orn.)
- 1892 Tremayne, L. J., F.Z.S., Grand Buildings, Trafalgar Square, W.C.2. (Bot., Lep., Arch., Pl. G., Orn., R.)
- 1940 Trouton, Miss E. M., 31 Albert Bridge Road, S.W.11. (Orn.)
- 1935 Tucker, D. G., B.Sc., 31 Frederica Road, E.4. (Ecol., Orn.)
- 1931 Underwood, R. A., Greenways, Shoreham Road, Otford, Kent. (Orn.)
- 1937 Upton, Mrs P. V., Eweland Hall, Margaretting, Essex. (Orn.)
- 1935 van Oostveen, Miss M., 11 Gloucester Walk, W.8. (Orn., Ent., Ecol.)
- 1927 Veitch, Miss A. I., 44 Budoch Drive, Goodmayes, Essex. (Arch.)
- 1929 Venour, Miss D., Offley Place, Great Offley, Hitchin, Herts. (Orn., Ecol.)
- 1933 Vincent, W. G., 154 Winchester Road, Hale End, E.4. (Orn.)
- 1938 Wadley, N. J. P. (address not known). (Orn.)
- 1941 Wagge, Miss L. E., 192 Lichfield Court, Richmond, Surrey. (Biol.)
- 1927 Waller, G., Taunton Dene, Sandyhurst Lane, Ashford, Kent. (Orn., Ent., Ecol.)
- 1938 Warburg, G. O., 1 Woodside, Erskine Hill, N.W.11. (Orn.)
- 1933 Ward, Miss M., M.B., Ch.B., Threeways, Jordans, Beaconsfield, Bucks. (Arch., Orn.)
- 1941 Watson, R. L., 55 Redcliffe Gardens, S.W.10. (Bot., Orn.)
- 1936 Watt, E. C., 13 Park Road, N.W.1. (Orn.)

- 1925 \*Watt, Mrs W. Boyd, M.B.O.U., 12 Campbell Road, Boscombe, Hants. (Arch., Ecol., Orn.)
- 1938 \*Wattson, Miss A. E., 27 Woodhill Crescent, Kenton, Mdx. (Ent., Orn.)
- 1939 Wattson, Mrs R. F., 27 Woodhill Crescent, Kenton, Mdx.
- 1939 Wattson, R. F., 27 Woodhill Crescent, Kenton, Mdx. (Ent.)
- 1928 Weeks, C., 7 Ashmount Road, N.19. (Orn., Ecol., R.)
- 1929 Wheeler, E. P., F.R.I.B.A., 10 St Martin's Avenue, Epsom. (Orn., Arch.)
- 1935 Whitaker, F. O., 51 Grosvenor Avenue, Carshalton, Surrey. (Bot., Pl. G., R., Ecol.)
- 1930 Whitbread, R., 6 Meadow Way, Weald Village, Harrow, Middlesex. (Arch.)
- 1932 Whitbread, Miss W. H. E., 6 Meadow Way, Weald Village, Harrow, Middlx.
- 1937 White, C. A., 18 Townsend Road, Southall, Middlesex. (Orn.)
- 1933 White, E. I., Ph.D., F.G.S., Ministry of Health, 17 Bath Road, Reading, Berks. (Palaeontology, Orn.)
- 1938 Whitehead, Miss D., 173 Sunny Gardens Road, N.W.4. (Bot., Orn., R.)
- 1935 Whitehouse, F. W. (address not known). (Bot.)
- 1937 Wiggins-Davies, W. W., St Thomas's House, Lambeth Palace Road, S.E.1. (Orn.)
- 1934 Wightman, J. S., c/o 57a Harrington Square, S.W.7. (Orn.)
- 1938 Wigram, A. F., 166 Rivermead Court, Hurlingham, S.W.6. (Orn.)
- 1938\* Wigzell, J. A., 17 Wool Road, S.W.20. (Ecol., Orn.)
- 1942 Wilkinson, J. S., B.A., A.C.A., F.R.H.S., 26 Golders Rise, N.W.4. (Bot.)
- 1937 Williams, O. C. B., 103 Brondesbury Road, N.W.6. (Orn., Ecol.)
- 1942 Wilson, D. S., 8a Beulah Hill, S.E.19. (Orn.)
- 1931 \*Wilson, Mrs M. M., 15 The Avenue, Bickley, Kent. (Bot., Ecol., Ent., Geol., Orn., Pl. G., R.)
- 1938 Wilton, A. R., 262 Kingston Road, S.W.20. (Ecol., Orn., R.)
- 1938 Winsloe, Mrs C. M., 63 North Gate, N.W.8. (Orn.)
- 1929 Witherby, H. F., M.B.E., H.F.A.O.U., F.Z.S., M.B.O.U., Gracious Pond Farm, Chobham, Nr. Woking, Surrey. (Orn.)
- 1937 Witney, Miss M., Tarbert, Stratford Road, Watford, Herts. (Orn., Bot., R.)
- 1942 Woodhurst, Miss G. F., 58 Seymour Road, E.4.
- 1937 Worthington, Miss L. F., 104 Goldhurst Terrace, N.W.6. (Arch.)
- 1922 Wright, W. A., 31 Beresford Road, E.4. (Orn.)
- 1942 Wyatt, Miss E. M., c/o Post Office Savings Bank, W.14. (Orn.)
- 1938 Wylie-Moore, N., 3 Helena Court, Eaton Rise, W.5. (Orn.)
- 1937 Yarrow, I. H. H., M.A., Ph.D., D.I.C., F.R.E.S., Agricultural Advisory Offices, 7 Redlands Road, Reading, Berks. (Ecol., Ent.)
- 1942 Young, B. W., 15 St James's Mansions, N.W.6. (Bot., Orn.)

### Affiliated Societies.

- 1938 Bishop's Stortford College Natl. Histy. Society (L. P. Madge), School House, The College, Bishop's Stortford, Herts.
- 1936 Tiffin Boys' School Scientific Society (Natural Science Section) (D. T. Humphris), Tiffin Boys' School, Kingston-on-Thames, Surrey. (Ecol.)
- 1936 Westminster School N.H. Society (L. H. Burd), (see Register).

### Branch Associates:

- 1942 Archer, H. A., 76 Endlebury Road, E.4. (Orn.)
- 1937 Boss, Miss E. F. M., 15 Orford Road, E.17. (Bot., Orn.)
- 1930 Brightman, Miss A., St Osyth, Hempstead Road, E.17.
- 1937 Broome, Miss E. B., 15 Orford Road, E.17. (Bot., Orn.)
- 1938 Chingford Branch County Library (E. Leyland, Librarian), Hall Lane, E.4.
- 1939 Churchill, Miss E. M., N.F.U., Bays, The Uplands, Loughton, Essex.
- 1942 Hammond, A. C., 132 Endlebury Road, E.4. (Orn.)
- 1920 Hart, Miss H., 7 Park Hill Road, E.4.
- 1933 Hayward, P. D., 2 King's Green, Loughton, Essex. (Orn.)
- 1937 Hiles, Miss I. E., 32 Gordon Road, E.4.
- 1933 Jeffery, Miss P., 21 Gordon Road, E.4.
- 1942 Mansbridge, J. W., 11 Westbury Lane, Buckhurst Hill, Essex. (Ecol.)
- 1911 Mathieson, Miss M. L., 7 Crescent Road, E.4. (Meteorology.)

- 1934 Nicholson, E. T., 21 Holly Drive, E.4. (Ecol., Orn.)  
 1930 Penwarden, Miss C., 39 The Avenue, E.4.  
 1935 Pettit, H. A., 197 Billet Road, E.17. (Orn.)  
 1927 Pettit, Mrs S., 2 Victoria Road, E.4.  
 1927 Pettit, S., 2 Victoria Road, E.4.  
 1942 Rumsey, P. F. C., Park Farm, Nursery, Sewardstone Road, E.4. (Orn.)  
 1925 Saul, H. J. B., 12 Sandringham Court, Ipswich Road, Norwich.  
 1937 Smith, R. P., 22 Pelton Avenue, Belmont, Surrey. (Conch.)  
 1903 Stevenson, H. E., F.C.S., 24 Wilton Grove, S.W.19. (Chem.)  
 1935 Stiff, D. F. H., 214 West Barnes Lane, Motspur Park, Surrey. (Geol.)  
 1927 Stopps, W. E., 50 Gordon Road, E.4.  
 1942 Tucker, Mrs F., 31 Frederica Road, E.4.  
 1942 Tucker, J. F., B.Sc., 31 Frederica Road, E.4. (Bot.)  
 1942 Tucker, M. J., 31 Frederica Road, E.4. (Ecol.)  
 1942 Turner, Mrs L., 202 The Avenue, Higham's Park, E.4. (Orn.)  
 1939 Verini, Miss E. M., M.A. (Oxon.), 55a Palmerston Road, Buckhurst Hill, Essex.

### Country and School Associates:

- 1941 Adolph, P. A., The Lodge, Ashurst Park, Langton Green, Tunbridge Wells, Kent. (Orn.)  
 1941 Bale, D. W. D., Marsh Hill, Dulverton, Somerset. (Orn.)  
 1931 Benson, Mrs R. B., Dellfield, Featherbed Lane, Felden, Boxmoor, Herts. (Orn., Bot., R.)  
 1934 Biddlecombe, P. E., 4 Geoffreyson Road, Caversham, Berks. (Arch.)  
 1908 Bostock, E. D., 8 Pelham Gardens, Folkestone, Kent. (Lep.)  
 1937 Bunker, H. E., 27 Broad Oak Lane, Penwortham, Lancs.  
 1937 Clark, A., address not known. (Orn.)  
 1935 Clerk-Rattray, Miss C. E., Easter Drimmie, Blairgowrie, Perthshire. (Bot., Orn.)  
 1933 Collett, G. W., 174 Sheldon Road, Chippenham, Wilts. (Bot., Ecol., Orn., R.)  
 1924 Collins, Miss F., Martlets, Clapham, near Worthing, Sussex. (Orn.)  
 1936 Colyer, W. L., Heybrook, Connaught Road, Sidmouth, Devon. (Ecol., Orn.)  
 1938 Cowper, S. G., B.Sc., Ph.D., M.R.C.S., L.R.C.P., F.Z.S. (missing from B.E.F., 3/9/40). (Ecol., Ent., Orn.)  
 1937 Evans, H. J., Jesemin, Amersham Road, Little Chalfont, Bucks. (Orn.)  
 1933 Ferrier, Miss J. M., F.Z.S., M.B.O.U., A.A.O.U., Sea Gull Bungalow, Porth, near Newquay, Cornwall. (Orn., Ecol.)  
 1930 Foster, Mrs S., 12 Victoria Road, Bridgnorth, Shropshire. (Orn.)  
 1940 Fraser, Miss C. M., B.Com., The Penn Club, 22 Bedford Place, W.C.1. (Orn.)  
 1936 Garnett, T. R., Charterhouse, Godalming, Surrey. (Orn.)  
 1933 Gibson, Miss E. M., Ashcroft, Station Road, Petersfield, Hants. (Lep., Orn.)  
 1939 Goom, Miss E., 55 Woodbury Park Road, Tunbridge Wells, Kent. (Orn.)  
 1938 Hackett, C. A., M.A., D.I.U., Paris, 42 Weoley Park Road, Selly Oak, Birmingham, 29. (Orn.)  
 1940 Harvey, A. A., St Teild's Hall, Roath, Cardiff. (Orn.)  
 1927 Harvey, J. H., Plas Newydd Cottage, Prestatyn, N. Wales. (Bot.)  
 1926 Hibbert-Ware, Miss A., F.L.S., M.B.O.U., Hilary, Girton, Cambridge. (Orn.)  
 1915 Hopkins, Prof. Sir F. Gowland, O.M., M.A., M.D., F.R.S., F.R.C.P., 71 Grange Road, Cambridge. (Biochemistry.)  
 1936 Lewis, Miss M., Brincliffe, Osney Crescent, Paignton, S. Devon. (Arch., Bot., Ecol., Ent., Orn., R.)  
 1941 Lisnev, A. A., M.A., M.D., F.R.E.S., The Red House, Narborough, Leicestershire. (Lep.)  
 1933 Lockyer, T. N., LL.B. (Lond.), The Willows, Carriers Lane, Condray Road, Southport, Lancs. (Arch., Orn., R.)  
 1933 Lockyer, Mrs T. N., The Willows, Carriers Lane, Condray Road, Southport, Lancs. (Arch., Orn., R.)  
 1932 McKittrick, T. H., 7 Central Bahnstrasse, Basle, Switzerland. (Orn.)  
 1932 McKittrick, Mrs T. H., 7 Central Bahnstrasse, Basle, Switzerland. (Orn.)  
 1932 Mason, C. T., Mill Cottage, Gt. Shefford, Newbury, Berks. (Arch., Ent.)

- 1938 Mason, I. H., 134 Ryden's Way, Old Woking, Surrey. (Ent., Orn., R.)  
 1902 Miller, Miss M. E., The Croft, Rainsford Lane, Chelmsford. (Lep.)  
 1905 Moore, J. W., F.R.E.S., 151 Middleton Hall Road, King's Norton, Birmingham, 30. (Exotic Lep.)  
 1942 Moorhouse, S., Lyndale, Orchard Avenue, Bolton-le-Sands, Lancs. (Orn.)  
 1938 Muirhead, D., Malvern House, The Baulk, Worksop, Notts. (Ecol., Orn.)  
 1929 Perry, Mrs M. D., 37 MacAlister Street, Mackay, Queensland, Australia. (Orn., R.)  
 1897 Pike, Oliver G., F.Z.S., M.B.O.U., F.R.P.S., The Bungalow, Leighton Buzzard, Beds. (Orn.)  
 1927 Raikes, Miss D. T., Hên Ysgol, Bwlch, Breconshire. (Arch., Bot., Orn.)  
 1936 Shaw, G. A., 18 Leyburn Grove, Shipley, Yorks. (Bot.)  
 1928 Sparkes, Mrs F. M., 4 Loop Road, Kingfield, Woking, Surrey. (Arch., Bot.)  
 1937 Spicer, A. H., M.C., M.R.C.S., L.R.C.P., Graffham, near Petworth, Sussex. (Orn.)  
 1914 Studd, E. F., M.A., B.C.L., F.R.E.S., Exeleigh, Starcross, Devon. (Lep.)  
 1937 Thomas, L. C., Woodlands, Cobham Road, East Horsley, Surrey. (Bot., Orn.)  
 1931 Thomas, Mrs P. I., Woodlands, Cobham Road, East Horsley, Surrey. (Ecol., Orn., R.)  
 1942 Wales, Mrs M., Great Garden, Dartington, Totnes, Devon.  
 1936 Willcox, J. M., address not known. (Orn.)  
 1929 Willcox, P. H., c/o 40 Welbeck Street, W.1. (Ent., Bot.)

### Register

of those at present unable to participate in the activities of the Society, to whom the *London Naturalist* is to be sent, but not the Syllabus.

- 1929 Acland, Miss C. M., M.B.O.U., Walwood, Banstead, Surrey. (Orn.)  
 1922 Aldred, Miss M., 21 Ladbroke Gardens, W.11. (Orn.)  
 1937 Alston, A. H. G., British Museum (Natural History), S.W.7. (Bot.)  
 1927 Barclay-Smith, Miss P., F.Z.S., M.B.O.U., at Ivydene, Buckingham Road, Bletchley, Bucks. (Orn.)  
 1937 Bayes, C. S., 50 Pembroke Road, E.17. (Orn.)  
 1932 Binley, Sister E. M., T.A.N.S. P209810/1, 17th General (London) Hospital, c/o A.P.O. 1665. (Orn., R.)  
 1896 Bishop, E. B., Lindfield, Marshall Road, Godalming, Surrey. (Arch., Bot., Orn., Pl. G.)  
 1938 Blay, N. A., L.D.S., R.C.S. (Eng.), Lieut. R.A.M.C., c/o 27 Shrubbery Gardens, N.21. (Ecol., Orn., R.)  
 1925 Boardman, S., 109 Monkham's Avenue, Woodford Green, Essex. (Ent., Orn.)  
 1939 Boyd, B. C. L., 10 Mayfield Road, Dagenham, Essex. (Orn.)  
 1936 Burd, L. H., Westminster School N.H. Society, 5 Cruxwell Street, Bromyard, Herefordshire. (Ecol., Ent., Orn.)  
 1937 Butlin, Lt. J. H., c/o 42 Dorchester Road, Weymouth, Dorset. (Orn.)  
 1932 Caiger-Smith, Miss J., Denison House, Little Gaddesden, Berkhamsted, Herts. (Orn.)  
 1938 Calvert, G. W., Heath Cottage, Gt. Warford, Alderley Edge, Cheshire. (Orn.)  
 1939 Carter, R. H. W. J., 1 Wood Street, East Grinstead, Sussex. (Ecol., Ent.)  
 1938 Chave, Mrs E. L., 15 Glenhurst Rise, S.E.19. (Orn.)  
 1938 Chave, S. P. W., 15 Glenhurst Rise, S.E.19. (Orn.)  
 1927 Clanchy, Mrs B. L., 12 Cranbourne Drive, Pinner, Mx. (Orn., R.)  
 1927 Clanchy, D. H., 12 Cranbourne Drive, Pinner, Mx. (Ecol., Orn., R.)  
 1937 Cockburn, Major T. A., M.D., c/o Lloyds Bank, Barking, Essex. (Orn.)  
 1932 Collenette, Mrs, Parwich Hall, near Ashbourne, Derbyshire. (Orn.)  
 1934 Collings, Mrs M., 36 Alfriston Road, S.W.11. (Ent., R.)  
 1914 Connoll, Miss E., 22 Ravenslea Road, Balham, S.W.12.  
 1928 Cox, Miss L. E., The Ghyll, Kendal, Westmorland. (Bot.)  
 1931 Crook, W. M., F.R.G.S., F.Z.S., Wyldwood, Cold Harbour, Dorking. (Orn.)



- 1933 Darashah, Mrs E. G., 108 Stephens Road, Tunbridge Wells, Kent. (Arch., Bot., R.)
- 1932 Davis, Miss R., c/o 118 College Road, S.E.21. (Orn., R.)
- 1939 De Bosdar, C. D., R.A.F. Station, Hemswell, Lincs.
- 1939 Devenish, L. R., 23 Grosvenor Road, East Grinstead, Sussex. (Ecol., Lep.)
- 1933 Doran, F. H., Toddsbrook, Great Parndon, Harlow, Essex. (P. L.)
- 1907 Eynon, L., B.Sc., F.I.C., 8 Hall Lane, Upminster, Essex. (Chem.)
- 1935 Farquharson, A., Le Play House, Albert Road, Malvern. (Ecol.)
- 1939 Fitter, Mrs M. S., 39 South Grove House, N.6. (Ecol., Orn.)
- 1939 Forty, E. W., 22 Medina Avenue, Hinchley Wood, Esher, Surrey. (Orn.)
- 1937 Fossey, H. B., c/o 39 Orchard Avenue, Cambridge. (Orn.)
- 1935 Foster, Mrs J. B., c/o 478 West Wycombe Road, High Wycombe Bucks.
- 1938 Franks, Miss H., at the Post Office, Modbury, near Ivybridge, S. Devon. (Arch., Bot., Ecol., Orn., R.)
- 1931 Frederick, Miss L. M., M.Sc., F.Z.S., c/o Miss Wilkins, Cold Harbour, Sherborne, Dorset. (Ecol., Orn., P. L., R.)
- 1933 Gillham, E. H., 9 Central Parade, Orpington, Kent. (Orn.)
- 1937 Gillingham, D. W., c/o 28 Roding Road, Loughton, Essex. (Orn.)
- 1930 Goodwin-Vanner, R. E. F., F.R.S.A., F.R.H.S., Essex Villa, Guildford, Surrey. (Arch.)
- 1934 Gray, Miss J. W., 10 Canford Road, S.W.11. (Arch., Bot., R.)
- 1937 Green, D. B., 20 Fitzjohn's Avenue, N.W.3. (Orn.)
- 1928 Griffin, Miss M., Fern Bank, Fromborough, Wirral, Cheshire. (Orn.)
- 1937 Guichard, K. M., c/o 10 Lyndhurst Gardens, N.W.3. (Bot., Ecol., Ent., R.)
- 1927 Hardiman, Miss A., Hyron's Cottage, Woodside Road, Amersham, Bucks. (R.)
- 1935 Harris, A. H., Silton, Loughborough Road, Ruddington, Notts. (Orn.)
- 1935 Hatch, R. S., c/o 66 Coston's Avenue, Greenford, Middx. (Orn.)
- 1930 Haworth, Miss F. M., B.Sc., F.Z.S., Lytton Lodge, Codicote, near Hitchin, Herts. (Zoo., Bot.)
- 1937 Hayward, H. H. S., 60 Ridge Crest, Enfield, Middlesex. (Orn.)
- 1938 Heyworth, Miss G., Tredilion Park, Abergavenny, Mon. (Orn.)
- 1936 Hilliard, R., 5 Oakleigh Gardens, Edgware, Mdx. (Ent., Ecol.)
- 1938 Hodge, Mrs E. M., 62 Roseneath Road, S.W.11. (Arch.)
- 1937 Hodge, G. A., 62 Roseneath Road, S.W.11. (Orn.)
- 1938 Horder, Miss J., 18 Roslin Gardens, Llandudno, N. Wales.
- 1933 House, F. C., c/o 294 Footscray Road, S.E.9. (Orn., R., Ecol.)
- 1939 Hussey, N. W., c/o Penwarne, Stonewall Park Road, Langton, Tunbridge Wells, Kent. (Hym., Orn.)
- 1929 Johns, Miss F. E., 30 Mt. Stewart Avenue, Kenton, Middx. (Bot., Orn., R.)
- 1939 Jones, H. O., 49 Eaton Road, Sutton, Surrey. (Orn.)
- 1936 Lamont, Mrs E. H., 49a Netherhall Gardens, N.W.3. (Orn.)
- 1935 Leatherdale, D., c/o Tasli, Hawk's Hill, Leatherhead, Surrey. (Bot., Ent., Geol., Pl. G., R.)
- 1928 Lee, Miss M., at Park Corner, Heathfield, Sussex. (Orn.)
- 1934 Locket, G. H., M.A., M.Sc., 1 Mount Pleasant, Harrow, Middx. (Ecol., Ent.)
- 1936 Lousley, J. E., 7 Penistone Road, S.W.16. (Bot., Ecol., Orn.)
- 1938 Lowe, Miss C. B. M., 14 Ross Court, S.W.15. (Arch., Bot., Orn., R.)
- 1938 MacAlister, D. A., c/o National Provincial Bank, 18 Cromwell Place, S.W.7. (Orn.)
- 1923 Mann, E., 10 Frankland Road, E.4. (Ecol., Orn., P. L.)
- 1939 Marsh, Miss B. M., 8 Woodland Court, Wanstead, E.11. (Bot., Ecol., Ent., Orn.)
- 1940 Mayo, R. W., Inaspinney, Oaklands, Welwyn, Herts. (Orn.)
- 1934 Morgan, D. A. T., c/o 3 Upton Field, Southwell, Notts. (Ecol., Orn., R.)
- 1939 Morgan, Miss L., 10 Old Square, Lincolns Inn, W.C.2.
- 1937 Morton, Miss G. M., The Whins, Hermit Hole, Keighley, Yorks. (Arch., Orn.)
- 1938 Mulholland, Rt. Hon. H. G. H., M.P., Speaker's House, Stormont, Belfast. (Orn.)
- 1934 Munro, Miss M., Brown Clee, Hollybush Road, Cardiff. (Ecol., Orn.)
- 1926 Niblett, M., 10 Greenway, Wallington, Surrey. (Ent., Pl. G.)
- 1933 Oke, E. E., Tweenways, The Mount, Leatherhead, Surrey. (Ent., Orn., R.)

- 1938 Park, W. D., c/o 34 White Horse Drive, Epsom, Surrey. (Ecol., Orn.)  
 1938 Parry-Okeden, Miss M. M. C., The Firs, Warnham, Horsham, Sussex. (Orn.)  
 1937 Patterson, H. G., 15 Queen's Gate Gardens, S.W.7. (Orn.)  
 1922 Pethen, R. W., 108 Northwold Road, E.5. (Ecol., Ent., Orn.)  
 1932 Phillips, H. H., M.R.C.S., L.R.C.P., 11 King's End, Bicester, Oxon. (Orn.)  
 1941 Pinks, R. S., 25 Parkdale Crescent, Worcester Park, Surrey. (Orn.)  
 1940 Plumptre, Miss H. M., North View, Airdale Road, Stone, Staffs. (Bot., Orn.)  
 1925 Poock, S. G., 17 Green Moor Link, N.21. (Ecol., Orn.)  
 1940 Poore, A. C. G., c/o 17 West Avenue, Wallington, Surrey. (Orn.)  
 1910 Pratt, W. B., 10 Lion Gate Gardens, Richmond, Surrey. (Lep.)  
 1930 Reeve, Miss E. A., The Penn Club, 22 Bedford Place, W.C.1. (Bot., Ecol., Ent., Orn., R.)  
 1937 Rose, C. C., c/o Ellerslie Guest House, Fittleworth, Sussex. (Orn.)  
 1939 Russell-Smith, Miss J. M., Heathfield, Little Heath, Potter's Bar, Mdx.  
 1932 Ryan, A. P., 19 Burnsall Street, S.W.3. (Orn.)  
 1937 Scott, Miss E. M. P., Berry Hill, Park Lane, Ashted, Surrey. (Arch., Orn.)  
 1939 Simon, M. H. H., Sharston House, Knutsford, Cheshire. (Ecol., Orn.)  
 1940 Sladen, W. J. L., M.B., 29 The Drive, Roundhay, Leeds, 8. (Bot., Ecol., Ent., Orn.)  
 1940 Smeed, J. A., 133 Cassiobury Park Avenue, Watford, Herts. (Orn.)  
 1927 Southern, H. N., M.A., F.Z.S., Sollershott Flats, Linkside Avenue, Oxford. (Ecol., Orn.)  
 1928 Talbot, G., F.R.E.S., 31 York Road, Woking, Surrey. (Lep.)  
 1930 Tassart, Miss O. F., 36 Alfriston Road, S.W.11. (Arch., Orn., Pl. G.)  
 1939 Thornton, J. O., 6 Arterberry Road, S.W.20. (Orn.)  
 1932 Todd, Miss G. E., Iona, Queen's Road, Old Colwyn, N. Wales. (Bot., Orn., R.)  
 1934 Tours, H., 7 Briar Road, Kenton, Middlesex.  
 1935 Tracy, N., M.B.O.U., The Black Cabin, South Wootton, King's Lynn, Norfolk. (Orn.)  
 1908 Tremayne, Mrs L. J., Grand Buildings, Trafalgar Square, W.C.2. (Arch., Bot., Orn., R.)  
 1940 Tucker, A. V., St Anne's, Bathurst Walk, Iver, Bucks. (Orn.)  
 1938 Vesey-FitzGerald, B. S., F.L.S., F.G.S., Editor "The Field," 41 Southgate Street, Winchester, Hants. (Ecol., Orn., Zoo.)  
 1925 Ward, B. T., 24 Long Deacon Road, E.4. (Bot., Ecol., Ent., Orn., Pl. G., R.)  
 1933 Ward, Miss I. W., Amaryllis, Hughenden Valley, High Wycombe, Bucks. (Icht., Orn.)  
 1939 Welford, Miss A. M., 13 Clifton Avenue, N.3. (Orn.)  
 1932 Williams, A. R., Barclay's Bank, Haifa, Palestine. (Orn.)  
 1936 Wilson, J. M., Redwing, Townsend Drive, St Albans, Herts. (Orn.)  
 1937 Winters, Miss E. D. M., The Whins, Hermit Hole, Keighley. (Arch., Orn.)

---

The following abbreviations are used in the list of members on pp. 41-52:—Api., Apiculture; Aqua., Aquaria; Arch., Archaeology; Ast., Astronomy; Biol., Biology; Bot., Botany; Chem., Chemistry; Col., Coleoptera; Conch., Conchology; Dipt., Diptera; Ecol., Ecology; Ent., Entomology; Ethn., Ethnology; Geol., Geology; Hem., Hemiptera; Hym., Hymenoptera; Icht., Ichthyology; Lep., Lepidoptera; Mam., Mammals; Micr., Microscopy; Mycol., Mycology; Neur., Neuroptera; Orn., Ornithology; Orth., Orthoptera; Ool., Oology; Pl. G., Plant Galls; P. L., Pond Life; R., Ramblers' Section; Rep., Reptilia; Zoo., Zoology.

\* Signifies a Life Member.



PRINTED BY

# PUBLICATIONS OF THE SOCIETY.

---

<b>London Naturalist</b> , 1921-25, 1929-31 (1926-28 out of print) -	each 3s
1932-41 - - - - -	5s
<b>London Bird Report</b> , 1936-41 (1938 out of print) - - -	each 1s 6d
<b>Transactions of the London Natural History Society</b> , 1914-20	each 3s
<b>Transactions of the City of London Entomological and Natural History Society</b> , 1891-1911 - - - - -	each 2s
1912-13 (1 vol.) - - - - -	3s

N.B.—Members may obtain any of the above  
at two-thirds of the published price.

---

## " LONDON NATURALIST " REPRINTS.

---

<b>2, 6, 8, 12, 14, 15, 16, 17. Botanical Records of the London Area,</b> Being a List of the Plants Observed within 20 Miles of St Paul's Cathedral, in eight parts (1927-35) - -	each 6d
<b>4. The Thames as a Bird Migration Route.</b> President's Address, 1928. By William E. Glegg, F.Z.S., M.B.O.U. - - -	6d
<b>5. Ornithological Records of the London Area,</b> Being a Pre- liminary List of Birds Observed within 20 Miles of St Paul's Cathedral (1928) - - - - -	6d
<b>7. The Birds of Middlesex since 1866.</b> President's Address, 1929. By William E. Glegg, F.Z.S., M.B.O.U. - - - -	1s
<b>9. British Gall Mites.</b> By H. J. Burkill, M.A., F.R.G.S. (1929)	6d
<b>10. Some Diurnal Observations on the Nightjar.</b> By David Lack (1929) - - - - -	6d
<b>11. Birds of the Harrow District (North-west Middlesex), 1925-30.</b> By T. H. Harrisson, M.B.O.U. (1933) - - - -	1s
<b>13. Ornithological Records of the London Area</b> (1935) - -	6d
<b>18. An Identification Key to British Grey Geese.</b> By John Berry (1935) - - - - -	6d
<b>19, 20, 21, 22, 23. The Survey of Limpsfield Common.</b> 1 (1937) —6d; 2 (1938) with map—9d; 3 (1939)—6d; 4 (1940) —3d; 5 (1941)—6d.	
<b>24. Randolph William Robbins, 1871-1941</b> - - - - -	6d
<b>Map of the Society's Area:</b> showing the 24 sections into which it is divided to facilitate botanical recording - - -	2d
<b>Life of A. W. Bacot.</b> By Prof. M. Greenwood, reprinted from <i>Journal of Hygiene</i> (1924) - - - - -	6d

# LONDON NATURAL HISTORY SOCIETY.

---

**T**HE Society is an amalgamation of the City of London Entomological and Natural History Society, founded in 1858, and the North London Natural History Society, founded in 1892.

A meeting is held monthly in war-time on Saturday afternoons from September to April and on Tuesday evenings from May to August in the London School of Hygiene and Tropical Medicine, Keppel Street, Gower Street, W.C.1. On Tuesdays the room is open from 6 p.m. to 9 p.m., and meetings begin at 6.30 p.m. punctually and terminate about 8.30 p.m., unless other arrangements are announced. On Saturdays the room is open from about 2 p.m.

The CHINGFORD LOCAL BRANCH meets at The Coronet Café, near Chingford Station, at 2.45 p.m., on the First Saturday in each month during the winter months.

At these meetings specimens of Natural History interest are exhibited, and papers on various subjects are read and discussed. Visitors may be introduced by members of the Society, and are cordially welcome.

The minimum Annual Subscription for members is 12s 6d; if under 25 years of age the minimum is 7s 6d; for associates, 5s minimum. New members and associates pay an entrance fee of 2s 6d. Subscription renewals, which should be sent to the Treasurer, become due on January 1st. Members elected after October 1st pay no subscriptions for the current calendar year. A Register is kept of Members who cannot participate in the Society's work during the war. They pay 2s 6d a year, and receive the Society's publications, but not the syllabus of current activities.

Each member and associate is entitled to one copy of *The London Naturalist* and *The London Bird Report* free; extra copies may be purchased by members, if supplies are available, at two-thirds of the published price.

The Society looks with confidence for the support of all who are interested in the study of Natural History.

Further information and syllabus may be obtained from the Secretary:—A. B. HORNBLOWER, 91 Queen's Road, Buckhurst Hill, Essex.

**N.B.**—During war-time the time and frequency of Meetings may be varied at the discretion of the Council, and the current syllabus should be consulted.









